

=> d his ful

(FILE 'HOME' ENTERED AT 10:00:33 ON 12 JAN 2006)

FILE 'HCAPLUS' ENTERED AT 10:01:04 ON 12 JAN 2006

E ANTIBODIES/CT

E E3+ALL

E E2+ALL

L1 498 SEA ABB=ON PLU=ON ANTIBODIES AND IMMUNOGLOBULINS+PFT,NT/CT(L)
CATALYTIC

L2 2157 SEA ABB=ON PLU=ON L1 OR CATALYT?(5A)ANTIBOD?

E LIGAND/CT

E E3+ALL

E E2+ALL

L3 3463 SEA ABB=ON PLU=ON LIGANDS+PFT,NT/CT(L) RECEP?

L4 52088 SEA ABB=ON PLU=ON LIGAND(5A)RECEP? OR L3

L5 10 SEA ABB=ON PLU=ON L2 AND L4

L6 32512 SEA ABB=ON PLU=ON ?IMMUNOGEN?

L7 2 SEA ABB=ON PLU=ON L5 AND L6

L8 82596 SEA ABB=ON PLU=ON TUMO?(3A)NECROS?(3A)FACT? OR TNF

L9 3 SEA ABB=ON PLU=ON L5 AND L8

L10 10 SEA ABB=ON PLU=ON L5 OR L7 OR L9

L11 90486 SEA ABB=ON PLU=ON LIGAND(P)RECEP? OR L3

L12 90486 SEA ABB=ON PLU=ON L11 OR L3

L13 17 SEA ABB=ON PLU=ON L12 AND L2

L14 6 SEA ABB=ON PLU=ON L13 AND (L8 OR L6)

L15 17 SEA ABB=ON PLU=ON L13 OR L14 OR L10

FILE 'MEDLINE, EMBASE, BIOSIS, USPATFULL, USPAT2, WPIX' ENTERED AT
10:06:46 ON 12 JAN 2006

L16 12795 SEA ABB=ON PLU=ON (ANTIBOD? OR IMMUNOGLOBUL?) (S) CATALYT?

L17 21593 SEA ABB=ON PLU=ON (ANTIBOD? OR IMMUNOGLOBUL?) (P) CATALYT?

L18 173466 SEA ABB=ON PLU=ON IMMUNOGEN? OR NONIMMUNOGEN?

L19 4432 SEA ABB=ON PLU=ON L17 AND L18

L20 4269 SEA ABB=ON PLU=ON L16 AND L18

L21 4432 SEA ABB=ON PLU=ON L19 OR L20

L22 279141 SEA ABB=ON PLU=ON LIGAND(P) RECEPTOR

L23 317522 SEA ABB=ON PLU=ON TUMO?(3A) NECROS?(3A) FACT? OR TNF

L24 2644 SEA ABB=ON PLU=ON L21 AND L22

L25 1562 SEA ABB=ON PLU=ON L23 AND L24

L26 241306 SEA ABB=ON PLU=ON (TUMO?(3A) NECROS?(3A) FACT? OR TNF) (3A) (AL
PHA OR A)

L27 1231 SEA ABB=ON PLU=ON L25 AND L26

D KWIC

L28 153 SEA ABB=ON PLU=ON L27 AND CATALYT?(3A) (ANTIBOD? OR IMMUNOGLOB
?)

D KWIC

L29 9580 SEA ABB=ON PLU=ON NONIMMUNOGEN? OR NON IMMUNOGEN?

L30 55 SEA ABB=ON PLU=ON L28 AND L29

D KWIC

L31 142 DUP REM L28 (11 DUPLICATES REMOVED)

ANSWERS '1-141' FROM FILE USPATFULL

ANSWER '142' FROM FILE WPIX

FILE 'HCAPLUS, USPATFULL, USPAT2, WPIX' ENTERED AT 10:14:38 ON 12 JAN 2006

L32 69 DUP REM L15 L30 (3 DUPLICATES REMOVED)

ANSWERS '1-17' FROM FILE HCAPLUS

ANSWERS '18-68' FROM FILE USPATFULL

ANSWER '69' FROM FILE WPIX

D L32 IBIB ABS HITIND 1-69
 L33 129 SEA ABB=ON PLU=ON L28 AND MODULAT?
 L34 5 SEA ABB=ON PLU=ON L33 AND PY<2002
 L35 75 SEA ABB=ON PLU=ON L27 AND PY<2002
 L36 62 SEA ABB=ON PLU=ON L35 AND MODULAT?
 D KWIC 10
 D QUE
 L37 7603 SEA ABB=ON PLU=ON NONIMMUNOGEN? OR NON IMMUNOGEN? OR
 "NOT" (W) IMMUNOGEN?
 L38 438 SEA ABB=ON PLU=ON L17 AND L37
 L39 160 SEA ABB=ON PLU=ON L38 AND L26
 L40 152 SEA ABB=ON PLU=ON L39 AND MODULAT?
 L41 5 SEA ABB=ON PLU=ON L40 AND PY<2002
 D SCA
 L42 22 DUP REM L15 L41 (0 DUPLICATES REMOVED)
 ANSWERS '1-17' FROM FILE HCAPLUS
 ANSWERS '18-22' FROM FILE USPATFULL
 D L42 IBIB ABS HITIND 1-17
 D L42 IBIB ABS KWIC 18-

FILE 'REGISTRY' ENTERED AT 10:54:46 ON 12 JAN 2006

L43 STR 6514-26-7
 L44 3 SEA FAM FUL L43
 L*** (DEL 101136) S TNF/SQSP
 L45 325415 SEA ABB=ON PLU=ON LFA/SQSP
 L46 2587 SEA ABB=ON PLU=ON LNRRA/SQSP
 L47 214765 SEA ABB=ON PLU=ON L45 AND SQL>300
 L48 110650 SEA ABB=ON PLU=ON L45 NOT L47

FILE 'HCAPLUS' ENTERED AT 10:56:47 ON 12 JAN 2006

L49 25733 SEA ABB=ON PLU=ON L47
 L50 11625 SEA ABB=ON PLU=ON L48
 L51 33046 SEA ABB=ON PLU=ON L49 OR L50
 E TUMOR NECROSIS FACTORS/CT
 E E3+ALL
 L52 24778 SEA ABB=ON PLU=ON TUMOR NECROSIS FACTORS+PFT,NT/CT(L) A
 L53 56920 SEA ABB=ON PLU=ON (TNF OR TUMO? (3A) NECROS? (3A) FACT?) (3A) (ALPH
 A OR A)
 L54 57186 SEA ABB=ON PLU=ON L52 OR L53
 L55 141 SEA ABB=ON PLU=ON L51 AND L54
 L56 6 SEA ABB=ON PLU=ON L44
 L57 1 SEA ABB=ON PLU=ON L56 AND L54
 L58 142 SEA ABB=ON PLU=ON L55 OR L57
 L59 68 SEA ABB=ON PLU=ON L58 AND PY<2002
 L60 0 SEA ABB=ON PLU=ON L57 AND L59
 L61 23 SEA ABB=ON PLU=ON L59 AND (ANTIBOD? OR IMMUNOGLOB?)

FILE 'MEDLINE, EMBASE, BIOSIS, USPATFULL, USPAT2' ENTERED AT 11:02:08 ON
 12 JAN 2006

L62 1 SEA ABB=ON PLU=ON L44
 L63 236836 SEA ABB=ON PLU=ON (TNF OR TUMO? (3A) NECROS? (3A) FACT?) (3A) (AL
 PHA OR A)
 L64 1 SEA ABB=ON PLU=ON L62 AND L63
 L65 175 SEA ABB=ON PLU=ON PEPTID? (3A) LFA
 L66 67 SEA ABB=ON PLU=ON L65 AND L63
 D KWIC

FILE 'REGISTRY' ENTERED AT 11:04:23 ON 12 JAN 2006

E LFA/CN
L67 10 SEA ABB=ON PLU=ON LFA-1?/CN
L68 0 SEA ABB=ON PLU=ON LFA(5A) (TNF OR TUMO?(3A) NECROS?)

FILE HOME

FILE HCAPLUS

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FILE COVERS 1907 - 12 Jan 2006 VOL 144 ISS 3
FILE LAST UPDATED: 11 Jan 2006 (20060111/ED)

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FILE MEDLINE

FILE LAST UPDATED: 11 JAN 2006 (20060111/UP). FILE COVERS 1950 TO DATE.

On December 11, 2005, the 2006 MeSH terms were loaded.

The MEDLINE reload for 2006 will soon be available. For details on the 2005 reload, enter HELP RLOAD at an arrow prompt (=>).
See also:

<http://www.nlm.nih.gov/mesh/>
http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_med_data_changes.html
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_2006_MeSH.html

OLDMEDLINE is covered back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2006 vocabulary.

This file contains CAS Registry Numbers for easy and accurate

FILE EMBASE

FILE COVERS 1974 TO 6 Jan 2006 (20060106/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT

FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 11 January 2006 (20060111/ED)

FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 10 Jan 2006 (20060110/PD)

FILE LAST UPDATED: 10 Jan 2006 (20060110/ED)

HIGHEST GRANTED PATENT NUMBER: US6986161

HIGHEST APPLICATION PUBLICATION NUMBER: US2006005290

CA INDEXING IS CURRENT THROUGH 10 Jan 2006 (20060110/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 10 Jan 2006 (20060110/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2005

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate
substance identification.

FILE USPAT2

FILE COVERS 2001 TO PUBLICATION DATE: 10 Jan 2006 (20060110/PD)

FILE LAST UPDATED: 10 Jan 2006 (20060110/ED)

HIGHEST GRANTED PATENT NUMBER: US2005272520

HIGHEST APPLICATION PUBLICATION NUMBER: US2006004269

CA INDEXING IS CURRENT THROUGH 10 Jan 2006 (20060110/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 10 Jan 2006 (20060110/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2005

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2005

USPAT2 is a companion file to USPATFULL. USPAT2 contains full text
of the latest US publications, starting in 2001, for the inventions
covered in USPATFULL. USPATFULL contains full text of the original
published US patents from 1971 to date and the original applications
from 2001. In addition, a USPATFULL record for an invention contains
a complete list of publications that may be searched in standard
search fields, e.g., /PN, /PK, etc.

USPATFULL and USPAT2 can be accessed and searched together through
the new cluster USPATALL. Type FILE USPATALL to enter this cluster.

Use USPATALL when searching terms such as patent assignees, classifications, or claims, that may potentially change from the earliest to the latest publication.

FILE WPIX

FILE LAST UPDATED: 6 JAN 2006 <20060106/UP>
MOST RECENT DERWENT UPDATE: 200602 <200602/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,
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http://www.stn-international.de/training_center/patents/stn_guide.pdf <<<

>>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE
<http://scientific.thomson.com/support/patents/coverage/latestupdates/>

>>> FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER
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<http://scientific.thomson.com/support/products/dwpi/>

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DOCUMENTATION NOW AVAILABLE IN DERWENT WORLD PATENTS INDEX
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FOR FURTHER DETAILS:
<http://scientific.thomson.com/support/products/dwpifv/>

>>> THE CPI AND EPI MANUAL CODES WILL BE REVISED FROM UPDATE 200601.
PLEASE CHECK:
<http://scientific.thomson.com/support/patents/dwpioref/reftools/classificat>

>>> PLEASE BE AWARE OF THE NEW IPC REFORM IN 2006, SEE
http://www.stn-international.de/stndatabases/details/ipc_reform.html <

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 10 JAN 2006 HIGHEST RN 871658-99-0
DICTIONARY FILE UPDATES: 10 JAN 2006 HIGHEST RN 871658-99-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS

for details.

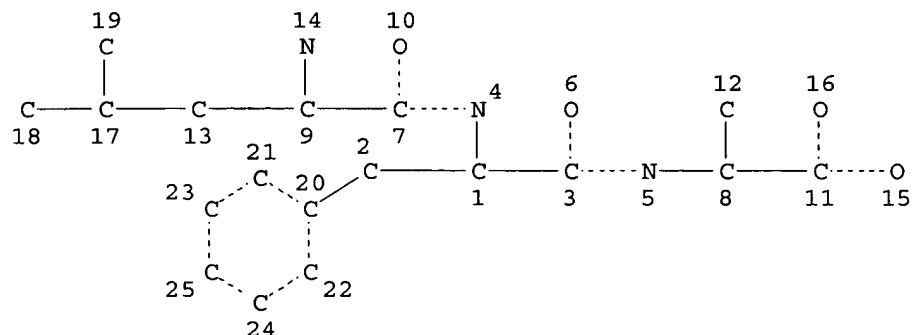
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d que l61

L43

STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

L44	3	SEA	FILE=REGISTRY	FAM	FUL	L43
L45	325415	SEA	FILE=REGISTRY	ABB=ON	PLU=ON	LFA/SQSP
L47	214765	SEA	FILE=REGISTRY	ABB=ON	PLU=ON	L45 AND SQL>300
L48	110650	SEA	FILE=REGISTRY	ABB=ON	PLU=ON	L45 NOT L47
L49	25733	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L47
L50	11625	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L48
L51	33046	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L49 OR L50
L52	24778	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	TUMOR NECROSIS FACTORS+PFT,NT/ CT(L) A
L53	56920	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	(TNF OR TUMO? (3A) NECROS? (3A) FA CT?) (3A) (ALPHA OR A)
L54	57186	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L52 OR L53
L55	141	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L51 AND L54
L56	6	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L44
L57	1	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L56 AND L54
L58	142	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L55 OR L57
L59	68	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L58 AND PY<2002
L61	23	SEA	FILE=HCAPLUS	ABB=ON	PLU=ON	L59 AND (ANTIBOD? OR IMMUNOGLO B?)

=> d l61 ibib abs hitind hitstr 1-23

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L61 ANSWER 1 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:836393 HCAPLUS

DOCUMENT NUMBER: 139:336932

TITLE: Human tumor necrosis factor- $\gamma\beta$, receptor
DR3 and TR6, antagonists and **antibodies** for
diagnosis, prognosis and treatment of inflammatory
bowel diseasesINVENTOR(S): Yu, Guo-liang; Ni, Jian; Rosen, Craig A.; Zhang, Jun;
Wei, Ping

PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 173 pp., Cont.-in-part of U.S.
Ser. No. 226,294.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 11

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003198640	A1	20031023	US 2002-310793	20021206
WO 9614328	A1	19960517	WO 1994-US12880	19941107 <--
W: AU, CA, CN, JP, KR, NZ, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 2003027284	A1	20030206	US 1998-131237	19980807
US 6599719	B2	20030729		
US 2002090683	A1	20020711	US 1999-246129	19990208
US 6824767	B2	20041130		
US 2002150534	A1	20021017	US 2001-899059	20010706
US 2003129189	A1	20030710	US 2002-226294	20020823
PRIORITY APPLN. INFO.:			WO 1994-US12880	A2 19941107
			US 1995-461246	B2 19950605
			US 1998-5020	B2 19980109
			US 1998-74047P	P 19980209
			US 1998-131237	A2 19980807
			US 1999-246129	A2 19990208
			US 1999-131963P	P 19990430
			US 1999-132227P	P 19990503
			US 1999-134067P	P 19990513
			US 2000-180908P	P 20000208
			US 2000-559290	B2 20000427
			US 2000-216879P	P 20000707
			US 2001-278449P	P 20010326
			US 2001-899059	A2 20010706
			US 2001-314381P	P 20010824
			US 2001-336695P	P 20011207
			US 2002-226294	A2 20020823
			WO 2000-US11689	A2 20000428

AB The present invention encompasses methods for detection, diagnosis, prevention, treatment, and/or amelioration of inflammatory bowel diseases and disorders using TNF- $\gamma\beta$ and its receptors DR3 and TR6. In particular the invention encompasses methods of using TNF- $\gamma\beta$, DR3 and TR6 polypeptides, as well as **antibodies**, and antagonists thereto, in the diagnosis, prognosis and treatment of ulcerative colitis and/or Crohn's disease. Methods of screening for antagonists of the TNF- $\gamma\beta$ polypeptide, together with therapeutic uses of such antagonists are also disclosed.

IC ICM A61K039-395

INCL 424145100

CC 15-5 (Immunochemistry)

Section cross-reference(s): 1, 3, 9, 63

ST human TNF gamma beta DR3 TR6 receptor antagonist **antibody**;
inflammatory bowel disease TNF gamma beta receptor antagonist
antibody

IT Receptors

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(4-1BB, ligand; chimeric TNF- $\gamma\beta$; human tumor necrosis
factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and
antibodies for diagnosis, prognosis and treatment of
inflammatory bowel diseases)

IT Cytokines

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(APRIL, chimeric TNF- $\gamma\beta$; human tumor necrosis
factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and
antibodies for diagnosis, prognosis and treatment of
inflammatory bowel diseases)

IT Cytokines

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(APRIL-SV; chimeric TNF- $\gamma\beta$; human tumor necrosis
factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and
antibodies for diagnosis, prognosis and treatment of
inflammatory bowel diseases)

IT Cytokines

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(BAFF, BlySTM-SV; chimeric TNF- $\gamma\beta$; human tumor necrosis
factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and
antibodies for diagnosis, prognosis and treatment of
inflammatory bowel diseases)

IT Cytokines

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(CD30 ligand, chimeric TNF- $\gamma\beta$; human tumor necrosis
factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and
antibodies for diagnosis, prognosis and treatment of
inflammatory bowel diseases)

IT Glycoproteins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(CD40-L (antigen CD40 ligand), chimeric TNF- $\gamma\beta$; human tumor
necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and
antibodies for diagnosis, prognosis and treatment of
inflammatory bowel diseases)

IT CD antigens

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(CD70, chimeric TNF- $\gamma\beta$; human tumor necrosis

factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Inflammation

(Crohn's disease; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Intestine, disease

(Crohn's; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Cytokine receptors

RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(DR3 (death receptor 3); human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Proteins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(EDA; chimeric TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Proteins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(LIGHT; chimeric TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Antigens

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(OX-40, ligand; chimeric TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Cytokines

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(TNFSF7 (tumor necrosis factor superfamily member 7), chimeric TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT Tumor necrosis factor receptors

RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(TR6; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

- IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(TRAIL (tumor necrosis factor-related apoptosis-inducing ligand), chimeric TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)
- IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(TWEAK; chimeric TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)
- IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(VEGI-SV; chimeric TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)
- IT Drug screening
(antagonist; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)
- IT Tumor necrosis factor receptors
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antagonist; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)
- IT Samples
(biol.; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)
- IT Fas ligand
Lymphotoxin
Tumor necrosis factors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(chimeric TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)
- IT Proteins
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(endokine α ; chimeric TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)
- IT Gene, animal
RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(for TNF- $\gamma\beta$, receptors DR3 and TR6; human tumor necrosis

factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT **Antibodies and Immunoglobulins**

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(fragments; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT **Diagnosis**

(genetic; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT **Gene therapy**

Human

Immunotherapy

Molecular cloning

Prognosis

Protein sequences

cDNA sequences

(human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT **Fusion proteins (chimeric proteins)**

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT **Antibodies and Immunoglobulins**

Antibodies and Immunoglobulins

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT **Diagnosis**

(immunodiagnosis; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT **Intestine, disease**

(inflammatory; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT **Mononuclear cell (leukocyte)**

(lamina propria; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT **Intestine**

(lamina propria; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT **Albumins, biological studies**

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(serum, chimeric TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and

- antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)
- IT Animal
(transgenic or knock-out; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)
- IT Inflammation
Intestine, disease
(ulcerative colitis; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)
- IT Lymphotoxin
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(β , chimeric TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)
- IT Interferons
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(γ , secretion inhibition; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)
- IT Tumor necrosis factors
RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
($\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)
- IT 616525-37-2DP, subfragments and chimeric derivs. are claimed
616525-40-7DP, subfragments and chimeric derivs. are claimed
616525-41-8DP, chimeric derivs. are claimed 616525-43-0DP, subfragments and chimeric derivs. are claimed
RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)
- IT 207621-35-0P, RANKL
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(chimeric TNF- $\gamma\beta$; human tumor necrosis factor- $\gamma\beta$, receptor DR3 and TR6, antagonists and **antibodies** for diagnosis, prognosis and treatment of inflammatory bowel diseases)
- IT 616525-36-1DP, subfragments and chimeric derivs. are claimed
616525-38-3DP, chimeric derivs. are claimed 616525-39-4DP, subfragments and chimeric derivs. are claimed 616525-42-9DP, subfragments and chimeric derivs. are claimed 616525-44-1DP, chimeric derivs. are claimed
RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(nucleotide sequence; human tumor necrosis factor- γ β ,
receptor DR3 and TR6, antagonists and **antibodies** for
diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT 616526-21-7 616526-23-9 616526-25-1 616526-27-3 616526-29-5
616526-31-9 616526-33-1 616526-35-3 616526-37-5 616526-39-7
616526-41-1 616526-43-3 616526-45-5 616526-47-7 616526-49-9
616526-51-3 616526-53-5 616526-55-7 616526-57-9 616526-58-0
616526-59-1 616526-60-4 616526-61-5 616526-62-6 616526-63-7
616526-64-8 616526-65-9 616526-66-0 616526-67-1 616526-68-2
616526-69-3 616526-70-6 616526-71-7 616526-72-8 616526-73-9
616526-74-0 616526-75-1 616526-76-2 616526-77-3 616526-78-4
616526-79-5 616526-80-8 616526-81-9

RL: PRP (Properties)

(unclaimed nucleotide sequence; human tumor necrosis
factor- γ β , receptor DR3 and TR6, antagonists and
antibodies for diagnosis, prognosis and treatment of
inflammatory bowel diseases)

IT 616526-20-6 616526-22-8 616526-24-0 **616526-26-2**
616526-28-4 616526-30-8 616526-32-0 616526-34-2 616526-36-4
616526-38-6 616526-40-0 616526-42-2 616526-44-4 616526-46-6
616526-48-8 616526-50-2 616526-52-4 616526-54-6 616526-56-8

RL: PRP (Properties)

(unclaimed protein sequence; human tumor necrosis factor- γ β ,
receptor DR3 and TR6, antagonists and **antibodies** for
diagnosis, prognosis and treatment of inflammatory bowel diseases)

IT **616526-26-2**

RL: PRP (Properties)

(unclaimed protein sequence; human tumor necrosis factor- γ β ,
receptor DR3 and TR6, antagonists and **antibodies** for
diagnosis, prognosis and treatment of inflammatory bowel diseases)

RN 616526-26-2 HCAPLUS

CN 19: PN: US20030198640 SEQID: 16 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L61 ANSWER 2 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:794134 HCAPLUS

DOCUMENT NUMBER: 137:309504

TITLE: Human tumor necrosis

factor receptors 6.alpha. and

6 β for diagnosis and therapy of immune
system-related diseases

INVENTOR(S): Gentz, Reiner L.; Ebner, Reinhard; Yu, Guo Liang;

Ruben, Steven M.; Ni, Jian; Feng, Ping

PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 159 pp., Cont.-in-part of U. S.
Ser. No.518,931.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002150583	A1	20021017	US 2001-935727	20010824
US 6261801	B1	20010717	US 1998-6353	19980113 <--
AU 763955	B2	20030807	AU 2001-38916	20010424
US 2004013664	A1	20040122	US 2003-418242	20030418

PRIORITY APPLN. INFO.:

US 1997-35496P	P 19970114
US 1998-6353	A2 19980113
US 1999-121774P	P 19990304
US 1999-124092P	P 19990312
US 1999-131279P	P 19990427
US 1999-131964P	P 19990430
US 1999-146371P	P 19990802
US 1999-168235P	P 19991201
US 2000-518931	A2 20000303
US 2000-227598P	P 20000825
US 2000-252131P	P 20001121
US 2001-303224P	P 20010706
US 1997-54885P	P 19970807
AU 1998-58157	A 19980113
US 1998-6352	A2 19980113
US 2001-935727	A2 20010824
US 2002-373604P	P 20020419

AB The present invention relates to novel Tumor Necrosis Factor Receptor proteins. In particular, isolated nucleic acid mols. are provided encoding the human TNFR-6 α & -6 β proteins. TNFR-6 α & -6 β polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of TNFR-6 α & -6 β activity. Also provided are diagnostic methods for detecting immune system-related disorders and therapeutic methods for treating immune system-related disorders. The immune system-related diseases include HIV infection, endotoxic shock, cancer, autoimmune disease, graft vs. host disease, acute graft rejection, chronic, graft rejection, neurodegenerative disorder, myelodysplastic syndrome, ischemic injury, toxin-induced liver disease, septic shock, cachexia, and anorexia.

IC ICM A61K039-395

ICS C07K016-46

INCL 424178100

CC 15-5 (Immunochemistry)

Section cross-reference(s): 1, 3, 9, 63

IT **Tumor necrosis factor** receptors

RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(6 α ; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

IT Tumor necrosis factor receptors

RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(6 β ; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

IT Inflammation

(Crohn's disease; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

IT Intestine, disease

(Crohn's; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

IT Transplant rejection
(acute and chronic; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

IT Diagnosis
(agents; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

IT Drug screening
(agonist and antagonist; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

IT Diagnosis
Diagnosis
(cancer; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

IT Ischemia
(cardiac; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

IT Drug delivery systems
(carriers; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

IT **Antibodies and Immunoglobulins**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(constant region; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

IT Nervous system, disease
(degeneration; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

IT Immunity
(disorder; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

IT Autoimmune disease
(exptl. autoimmune encephalomyelitis; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

IT Encephalomyelitis
(exptl. autoimmune; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

IT Gene, animal
RL: ARU (Analytical role, unclassified); BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(for human **TNF** 6 α and 6 β ; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

IT **Antibodies and Immunoglobulins**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(fragments, Fc; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

- IT Transplant and Transplantation
(graft-vs.-host reaction; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)
- IT Allergy
Animal
Anorexia
Antitumor agents
Arthritis
Asthma
Atherosclerosis
Autoimmune disease
Blood plasma
Blood serum
Body fluid
Cachexia
Cerebrospinal fluid
Culture media
Encephalitis
Genetic vectors
Human
Human immunodeficiency virus
Immunotherapy
Infection
Inflammation
Ischemia
Molecular cloning
Multiple sclerosis
Myelodysplastic syndromes
Nucleic acid hybridization
Protein sequences
Psoriasis
Rheumatoid arthritis
Synovial fluid
Urine analysis
cDNA sequences
(human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)
- IT Fusion proteins (chimeric proteins)
RL: ARU (Analytical role, unclassified); BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)
- IT Nucleic acids
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)
- IT Intestine, disease
(inflammatory; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)
- IT Heart, disease
(ischemia; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)

- IT Injury
(ischemic; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)
- IT Toxins
RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study)
(liver disease; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)
- IT Genetic element
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(regulatory; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)
- IT Shock (circulatory collapse)
(septic; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)
- IT Diagnosis
(serodiagnosis; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)
- IT Albumins, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(serum; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)
- IT Lupus erythematosus
(systemic; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)
- IT Liver, disease
(toxin-induced; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)
- IT 471945-09-2P 471945-10-5P 471945-11-6P
RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)
- IT 9032-08-0D, Glucoamylase, **TNF** receptor 6 α or 6 β chimeras 471940-78-0D, **TNF** receptor 6 α or 6 β chimeras
RL: ARU (Analytical role, unclassified); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(human **tumor necrosis factor** receptors 6 α and 6 β for diagnosis and therapy of immune system-related diseases)
- IT 471945-07-0P 471945-08-1P 471945-12-7P 471945-13-8P 471945-14-9P
RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(nucleotide sequence; human **tumor necrosis**

factor receptors 6 α and 6 β for diagnosis
and therapy of immune system-related diseases)

IT 471945-41-2 471945-42-3 471945-43-4 471945-44-5 471945-45-6
471945-46-7 471945-47-8 471945-48-9 471945-49-0 471945-50-3
471945-51-4 471945-52-5 471945-53-6 471945-54-7 471945-55-8
471945-56-9 471945-57-0 471945-58-1 471945-59-2 471945-60-5

RL: PRP (Properties)
(unclaimed nucleotide sequence; human **tumor necrosis**
factor receptors 6 α and 6 β for diagnosis
and therapy of immune system-related diseases)

IT 471945-29-6 471945-30-9 471945-31-0 471945-32-1 471945-33-2
471945-34-3 471945-35-4 **471945-36-5** 471945-37-6
471945-38-7 471945-39-8 471945-40-1

RL: PRP (Properties)
(unclaimed protein sequence; human **tumor necrosis**
factor receptors 6 α and 6 β for diagnosis
and therapy of immune system-related diseases)

IT 367273-47-0 367273-48-1

RL: PRP (Properties)
(unclaimed sequence; human **tumor necrosis**
factor receptors 6 α and 6 β for diagnosis
and therapy of immune system-related diseases)

IT **471945-36-5**

RL: PRP (Properties)
(unclaimed protein sequence; human **tumor necrosis**
factor receptors 6 α and 6 β for diagnosis
and therapy of immune system-related diseases)

RN 471945-36-5 HCAPLUS

CN 12: PN: US20020150583 SEQID: 12 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L61 ANSWER 3 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:658583 HCAPLUS

DOCUMENT NUMBER: 137:212014

TITLE: Secreted and transmembrane polypeptides and nucleic
acids encoding them from human tissues

INVENTOR(S): Eaton, Dan L.; Filvaroff, Ellen; Gerritsen, Mary E.;
Goddard, Audrey; Godowski, Paul J.; Grimaldi, J.
Christopher; Gurney, Austin L.; Watanabe, Colin K.;
Wood, William I.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 400 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 142

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002119130	A1	20020829	US 2001-6867	20011206
CA 2303834	AA	19990325	CA 1998-2303834	19980916 <--
JP 2002238586	A2	20020827	JP 2001-385205	19980916
JP 2002238587	A2	20020827	JP 2001-385248	19980916
JP 2002238588	A2	20020827	JP 2001-385315	19980916
JP 2002253280	A2	20020910	JP 2001-385319	19980916
NZ 528704	A	20050225	NZ 1999-528704	19990308
CA 2328895	AA	19991209	CA 1999-2328895	19990602 <--

AU 9943286	A1	19991220	AU 1999-43286	19990602 <--
AU 761340	B2	20030605		
NZ 509079	A	20040227	NZ 1999-509079	19990602
JP 2004516802	T2	20040610	JP 2000-552282	19990602
CA 2450824	AA	20000420	CA 1999-2450824	19991005 <--
EP 1466977	A1	20041013	EP 2004-7618	19991202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
NZ 523206	A	20041224	NZ 2000-523206	20000211
NZ 523207	A	20041224	NZ 2000-523207	20000211
NZ 517395	A	20040130	NZ 2000-517395	20000309
CA 2481685	AA	20010308	CA 2000-2481685	20000824 <--
CA 2481691	AA	20010308	CA 2000-2481691	20000824 <--
CA 2481731	AA	20010308	CA 2000-2481731	20000824 <--
CA 2481756	AA	20010308	CA 2000-2481756	20000824 <--
CA 2481788	AA	20010308	CA 2000-2481788	20000824 <--
ZA 2000005703	A	20011011	ZA 2000-5703	20001016 <--
US 2002058309	A1	20020516	US 2001-866028	20010525
US 6642360	B2	20031104		
CA 2419541	AA	20020228	CA 2001-2419541	20010530
JP 2004520811	T2	20040715	JP 2002-522282	20010530
US 2002192659	A1	20021219	US 2001-902853	20010710
US 2003108983	A1	20030612	US 2001-902572	20010710
US 2003113718	A1	20030619	US 2001-902979	20010710
US 2003003530	A1	20030102	US 2001-904011	20010711
US 2003104381	A1	20030605	US 2001-903823	20010711
US 2003130489	A1	20030710	US 2001-903806	20010711
US 2003148419	A1	20030807	US 2001-903603	20010711
US 6767995	B2	20040727		
US 2003113719	A1	20030619	US 2001-905125	20010712
US 6664376	B2	20031216		
US 2003135025	A1	20030717	US 2001-904992	20010712
US 2003152999	A1	20030814	US 2001-904766	20010712
US 2003211569	A1	20031113	US 2001-904938	20010712
US 2003148370	A1	20030807	US 2001-904838	20010713
US 2003152922	A1	20030814	US 2001-904532	20010713
US 2003023054	A1	20030130	US 2001-906742	20010716
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US 2003113838	A1	20030619	US 2001-906815	20010716
US 2003148371	A1	20030807	US 2001-906777	20010716
US 2003190610	A1	20031009	US 2001-906618	20010716
US 6828146	B2	20041207		
US 2003215904	A1	20031120	US 2001-906722	20010716
US 6946262	B2	20050920		
US 2002197671	A1	20021226	US 2001-907824	20010717
US 2002198366	A1	20021226	US 2001-907841	20010717
US 2003027145	A1	20030206	US 2001-907613	20010717
US 2003027146	A1	20030206	US 2001-907942	20010717
US 2003104469	A1	20030605	US 2001-907652	20010717
US 2003190611	A1	20031009	US 2001-907728	20010717
US 2002132240	A1	20020919	US 2001-909320	20010718
US 2002146709	A1	20021010	US 2001-909088	20010718
US 2004005553	A1	20040108	US 2001-908576	20010718
AU 758921	B2	20030403	AU 2001-57764	20010801
AU 759004	B2	20030403	AU 2001-57765	20010801
CA 2420193	AA	20020228	CA 2001-2420193	20010823
JP 2004520810	T2	20040715	JP 2002-522275	20010823
US 2003073129	A1	20030417	US 2001-946374	20010904
US 2003199436	A1	20031023	US 2001-978544	20011016

US 2003199674	A1	20031023	US 2001-978802	20011016
US 2003180311	A1	20030925	US 2001-143029	20011019
US 2003207803	A1	20031106	US 2001-143026	20011019
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AB The present invention is directed to novel polypeptides and to nucleic acid mols. encoding those polypeptides. Thus, 84 cDNA clones encoding secreted or transmembrane proteins in human tissues were identified by extracellular domain homol. screening, amylase screening, and/or signal algorithm anal. Biol. activities exhibited by certain of the proteins include, induction of c-fos in pericytes, stimulated release of proteoglycans from cartilage, modulated glucose or free fatty acid uptake in skeletal muscle, and stimulated **TNF- α** release in human blood. Differential tissue expression in tumor vs. normal tissues is also demonstrated. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, **antibodies** which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

IC ICM C12Q001-68

ICS G01N033-53; C07H021-04; A61K038-43; C12N009-00; C12P021-02;

C12N005-06; C07K014-435

INCL 424094100

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 1, 6, 9, 13

IT **Antibodies and Immunoglobulins**
 Radionuclides, biological studies
 Toxins
 RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (conjugates, bioactive mols. for cell death; secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues)

IT **Antibodies and Immunoglobulins**
 RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (fusion products; secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues)

IT **Antibodies and Immunoglobulins**
 RL: ARG (Analytical reagent use); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (humanized; secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues)

IT **Antibodies and Immunoglobulins**
 RL: ARG (Analytical reagent use); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (monoclonal; secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues)

IT **Antibodies and Immunoglobulins**
 RL: ARG (Analytical reagent use); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues)

IT **Antibodies and Immunoglobulins**
 RL: ARG (Analytical reagent use); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (single chain; secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues)

IT **Blood**
 (stimulation of **TNF- α** release in; secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues)

IT **Fusion proteins (chimeric proteins)**
 RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (with epitope tags or Fc region of **Ig**; secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues)

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unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; secreted and transmembrane polypeptides and
nucleic acids encoding them from human tissues)
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unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; secreted and transmembrane polypeptides and
nucleic acids encoding them from human tissues)
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L61 ANSWER 4 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:90106 HCAPLUS
DOCUMENT NUMBER: 136:129967
TITLE: Secreted and transmembrane polypeptides and nucleic
acids encoding the same from human tissues
INVENTOR(S): Baker, Kevin P.; Desnoyers, Luc; Gerritsen, Mary E.;
Goddard, Audrey; Godowski, Paul J.; Grimaldi, J.
Christopher; Gurney, Austin L.; Smith, Victoria;
Stephan, Jean-Philippe F.; Watanabe, Colin K.; Wood,
William I.

PATENT ASSIGNEE(S): Genentech, Inc., USA
 SOURCE: PCT Int. Appl., 359 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
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 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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AB The present invention is directed to 122 novel secreted and/or transmembrane polypeptides and to the cDNA mols. encoding those polypeptides. The cDNAs were isolated from human cDNA libraries and identified by extracellular domain homol. screening, amylase screening, and signal algorithm anal. The proteins show various useful biol. activities including: stimulating gene expression or proliferation of pericyte cells, stimulating proliferation or differentiation of chondrocytes, stimulation of release of **tumor necrosis factor-.alpha.** from human blood, stimulating or inhibiting proliferation of human dermal fibroblasts. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, **antibodies** which bind to the polypeptides of the present invention, and to methods for producing the polypeptides of the present invention.

IC C07K014-705

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13

IT **Antibodies and Immunoglobulins**
RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(fragments, Fc, chimeric proteins containing; secreted and transmembrane polypeptides and nucleic acids encoding the same from human tissues)

IT **Antibodies and Immunoglobulins**
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(humanized; secreted and transmembrane polypeptides and nucleic acids encoding the same from human tissues)

IT **Antibodies and Immunoglobulins**
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (monoclonal; secreted and transmembrane polypeptides and nucleic acids
 encoding the same from human tissues)

IT **Antibodies and Immunoglobulins**
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (secreted and transmembrane polypeptides and nucleic acids encoding the
 same from human tissues)

IT **Antibodies and Immunoglobulins**
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
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 DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; secreted and transmembrane polypeptides and
 nucleic acids encoding the same from human tissues)

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392345-13-0P 392345-67-4P
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; secreted and transmembrane polypeptides and
 nucleic acids encoding the same from human tissues)

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 (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 392344-67-1 HCAPLUS

CN Secretory protein PRO526 (human clone DNA44184-1319 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 392344-71-7 HCAPLUS

CN Secretory protein PRO531 (human clone DNA48314-1320 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 392345-13-0 HCAPLUS

CN Secretory protein PRO1412 (human clone DNA64897-1628 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 392345-67-4 HCAPLUS

CN Secretory protein PRO4322 (human clone DNA92223-2567 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L61 ANSWER 5 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:903960 HCAPLUS

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TITLE: Human nucleic acids encoding secreted and transmembrane polypeptides

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PATENT ASSIGNEE(S): Genentech, Inc., USA

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AB The present invention is directed to novel polypeptides and to nucleic acid mols. encoding those polypeptides. Thus, 122 cDNAs encoding human PRO proteins are identified by extracellular domain (including the signal sequence, if any) homol. screening, amylase screening, and signal algorithm anal. The PRO proteins exhibit various useful biol. activities, including stimulating proliferation of or gene expression in pericyte cells, stimulating proliferation or differentiation of chondrocytes, stimulating release of **tumor necrosis factor** -**.alpha.** from human blood, stimulating proliferation of human dermal fibroblasts, and overexpression in various cancerous tumors. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the

present invention fused to heterologous polypeptide sequences,
antibodies which bind to the polypeptides of the present invention
 and to methods for producing the polypeptides of the present invention.

IC B01D039-16

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 6, 13, 63

IT **Antibodies and Immunoglobulins**

RL: BSU (Biological study, unclassified); BUU (Biological use,
 unclassified); BIOL (Biological study); USES (Uses)
 (human nucleic acids encoding secreted and transmembrane polypeptides)

IT **Antibodies and Immunoglobulins**

RL: BSU (Biological study, unclassified); BUU (Biological use,
 unclassified); BIOL (Biological study); USES (Uses)
 (humanized; human nucleic acids encoding secreted and transmembrane
 polypeptides)

IT **Antibodies and Immunoglobulins**

RL: BSU (Biological study, unclassified); BUU (Biological use,
 unclassified); BIOL (Biological study); USES (Uses)
 (monoclonal; human nucleic acids encoding secreted and transmembrane
 polypeptides)

IT **Antibodies and Immunoglobulins**

RL: BSU (Biological study, unclassified); BUU (Biological use,
 unclassified); BIOL (Biological study); USES (Uses)
 (single chain; human nucleic acids encoding secreted and transmembrane
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RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
 PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (amino acid sequence; human nucleic acids encoding secreted and
 transmembrane polypeptides)

IT **380681-65-2P 380682-59-7P 380682-63-3P**

380985-78-4P 380986-32-3P

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);

PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; human nucleic acids encoding secreted and transmembrane polypeptides)

RN 380681-65-2 HCAPLUS

CN Secretory protein PRO10013 (human clone DNA125181-2804 precursor) (9CI)
(CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 380682-59-7 HCAPLUS

CN Secretory protein PRO526 (human clone DNA44184-1319 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 380682-63-3 HCAPLUS

CN Secretory protein PRO531 (human clone DNA48314-1320 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 380985-78-4 HCAPLUS

CN Secretory protein PRO1412 (human clone DNA64897-1628 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 380986-32-3 HCAPLUS

CN Secretory protein PRO4322 (human clone DNA92223-2567 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L61 ANSWER 6 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:693506 HCAPLUS

DOCUMENT NUMBER: 135:268240

TITLE: Secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues

INVENTOR(S): Baker, Kevin P.; Chen, Jian; Desnoyers, Luc; Goddard, Audrey; Godowski, Paul J.; Gurney, Austin L.; Pan, James; Smith, Victoria; Watanabe, Colin K.; Wood, William I.; Zhang, Zemin

PATENT ASSIGNEE(S): Genentech, Inc., USA

SOURCE: PCT Int. Appl., 774 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 142

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AB The present invention is directed to novel polypeptides and to nucleic acid mols. encoding those polypeptides. Thus, 305 cDNAs encoding human secreted or transmembrane proteins were identified by extracellular domain homol. screening, amylase screening, and signal algorithm anal. These transcripts for these proteins are overexpressed in various cancerous tissues, including adrenal, lung, colon, breast, prostate, rectal, cervical, and liver tumors. Certain of the proteins stimulate release of **tumor necrosis factor-.alpha.** from human blood, and also stimulate proliferation or differentiation of chondrocytes. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, **antibodies** which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

IC ICM C12N015-12

ICS C12N015-62; C07K014-47; C07K014-705; C07K016-18; G01N033-53;
C12Q001-68

CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13, 14

IT **Antibodies**
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(chimeric; secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues)

IT **Antibodies**
RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(humanized; secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues)

IT **Antibodies**
RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(monoclonal; secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues)

IT **Antibodies**
Probes (nucleic acid)
RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues)

IT **Antibodies**
RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(single chain; secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues)

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235088-04-7 235787-35-6 242794-87-2 242794-89-4 242795-08-0
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242796-11-8 242796-13-0 243122-08-9 243122-10-3 **243122-49-8**
243122-52-3 243122-70-5 **243122-74-9** 243123-25-3
243123-45-7 243646-92-6, Protein (human prostate 371-amino acid)
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 RL: ANT (Analyte); BOC (Biological occurrence); BSU (Biological study,
 unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical
 study); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
 (amino acid sequence; secreted and transmembrane polypeptides and human
 nucleic acids encoding them that are overexpressed in cancerous
 tissues)
 IT **329799-91-9** **329799-99-7** 329800-00-2 329800-07-9
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 343902-10-3, Protein PRO4978 (human clone DNA95930) 344007-43-8
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 unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical
 study); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
 (amino acid sequence; secreted and transmembrane polypeptides and human
 nucleic acids encoding them that are overexpressed in cancerous
 tissues)

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329799-99-7 339596-83-7 350264-81-2
354592-21-5 362642-14-6
RL: ANT (Analyte); BOC (Biological occurrence); BSU (Biological study,
unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical
study); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(amino acid sequence; secreted and transmembrane polypeptides and human
nucleic acids encoding them that are overexpressed in cancerous
tissues)

RN 160575-51-9 HCAPLUS
CN Tyrosine kinase receptor (human monocyte-expressed gene c-mer) (9CI) (CA
INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 203876-08-8 HCAPLUS
CN Protein (human gene Coch-5B2 precursor reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 221079-13-6 HCAPLUS
CN Dipeptidase, acetylasparylglutamate (human clone P1-683/P1-1694 reduced)
(9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 221455-95-4 HCAPLUS
CN Protein (human fetal brain gene LGI1 leucine-rich glioma-inactivated
protein precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 221877-95-8 HCAPLUS
CN Protein PRO271 (human clone UNQ238/DNA39423-1182 precursor) (9CI) (CA
INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 224301-63-7 HCAPLUS
CN Secretory protein (human clone HMEET96 266-amino acid precursor) (9CI)
(CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 226934-74-3 HCAPLUS
CN Protein PRO233 (human clone UNQ207 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 243122-49-8 HCAPLUS
CN Protein PRO706 (human clone UNQ370 extracellular domain-containing) (9CI)
(CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 243122-52-3 HCAPLUS
CN Protein PRO707 (human clone UNQ371 extracellular domain-containing) (9CI)
(CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 243122-74-9 HCAPLUS
CN Integrin (human gene ITGA7 α 7-chain isoform α 7X1B) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 252050-28-5 HCAPLUS
CN Membrane protein PRO1133 (human clone DNA53913-1490 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 252050-35-4 HCAPLUS
CN Membrane protein PRO783 (human clone DNA53996-1442 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 252050-55-8 HCAPLUS
CN Membrane protein PRO937 (human clone DNA56436-1448 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 252196-85-3 HCAPLUS
CN Membrane protein PRO1138 (human clone DNA58850-1495 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 253579-88-3 HCAPLUS
CN Protein (human clone HP10537 hydrophobic domain-containing) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 260382-23-8 HCAPLUS
CN Protein PRO1359 (human clone DNA59219-1613 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 260534-95-0 HCAPLUS
CN Protein PRO1249 (human clone DNA62809-1531 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 260535-09-9 HCAPLUS
CN Protein PRO1336 (human clone DNA65423-1595 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 260535-16-8 HCAPLUS
CN Protein PRO1337 (human clone DNA66672-1586 precursor) (9CI) (CA INDEX NAME)

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RN 260535-18-0 HCAPLUS
CN Protein PRO1480 (human clone DNA67962-1649 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 297774-92-6 HCAPLUS
CN Protein PRO4352 (human clone DNA87976-2593) (9CI) (CA INDEX NAME)

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RN 297774-95-9 HCAPLUS
CN Protein PRO6030 (human clone DNA96850-2705) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 321202-67-9 HCAPLUS
CN Cytokine receptor Zcytor14-1 (synthetic human) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 329799-91-9 HCAPLUS
CN Protein PRO3566 (human clone DNA59844-2542 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 329799-99-7 HCAPLUS
CN Protein PRO1342 (human clone DNA66674-1599 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 339596-83-7 HCAPLUS
CN Secretory protein (human clone HDPWP69 458-amino acid precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 350264-81-2 HCAPLUS
CN Hydrophobic domain-containing protein (human clone HP03934 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 354592-21-5 HCAPLUS
CN Leucine-rich repeat protein (human 692-amino acid precursor sequence homolog) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 362642-14-6 HCAPLUS
CN Protein PRO19630 (human clone DNA23336-2861 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L61 ANSWER 7 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:598038 HCAPLUS
DOCUMENT NUMBER: 135:175423
TITLE: TRADE molecules and uses related thereto
INVENTOR(S): Wood, Clive; Chaudhary, Divya; Long, Andrew
PATENT ASSIGNEE(S): Genetics Institute, Inc., USA
SOURCE: PCT Int. Appl., 173 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001058954	A2	20010816	WO 2001-US4238	20010209 <--
WO 2001058954	A3	20020321		
WO 2001058954	C2	20030116		

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HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2399391	AA	20010816	CA 2001-2399391	20010209 <--
US 2002068696	A1	20020606	US 2001-780532	20010209
EP 1254176	A2	20021106	EP 2001-909036	20010209

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JP 2004501604	T2	20040122	JP 2001-558100	20010209
NZ 520598	A	20040430	NZ 2001-520598	20010209
BR 2001008187	A	20050405	BR 2001-8187	20010209

PRIORITY APPLN. INFO.: US 2000-181922P P 20000211
US 2000-182148P P 20000214
WO 2001-US4238 W 20010209

AB The present invention relates, at least in part, to methods of modulating proliferation and apoptotic state of cells using agents that modulate the expression and/or activity of TRADE family polypeptides. In addition, the invention provides two novel members of the TRADE family of mols.

IC ICM C07K014-715
ICS C12N015-12; C12N015-62; C07K016-28; A61P035-00; A61P029-00

CC 1-12 (Pharmacology)
Section cross-reference(s): 3, 9, 15

IT **Immunoglobulins**
RL: BAC (Biological activity or effector, except adverse); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(Fc fragment, fusion protein with TRADE polypeptide; TRADE polypeptides and uses related thereto in modulating cell proliferation and apoptosis in relation to activation of JNK or NFκB signaling pathways)

IT **Tumor necrosis factor receptors**
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(TRADEα ; TRADE polypeptides and uses related thereto in modulating cell proliferation and apoptosis in relation to activation of JNK or NFκB signaling pathways)

IT **Antibodies**
RL: ARG (Analytical reagent use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(to TRADE polypeptides; TRADE polypeptides and uses related thereto in modulating cell proliferation and apoptosis in relation to activation of JNK or NFκB signaling pathways)

IT **Tumor necrosis factor receptors**
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(α OAF065; TRADE polypeptides and uses related thereto in modulating cell proliferation and apoptosis in relation to activation of JNK or NFκB signaling pathways)

IT **288333-36-8, Protein (Mus musculus gene Troy)**
RL: PRP (Properties)
(Unclaimed; tRADE mols. and uses related thereto)

IT **288333-36-8, Protein (Mus musculus gene Troy)**

RL: PRP (Properties)

(Unclaimed; TRADE mols. and uses related thereto)

RN 288333-36-8 HCAPLUS

CN Protein (Mus musculus gene Troy) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L61 ANSWER 8 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:417147 HCAPLUS

DOCUMENT NUMBER: 135:29838

TITLE: Secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses

INVENTOR(S): Baker, Kevin; Beresini, Maureen; Deforge, Laura; Desnoyers, Luc; Filvaroff, Ellen; Gao, Wei Qiang; Gerritsen, Amry E.; Goddard, Audrey; Godowski, Paul J.; Gurney, Austin L.; Gherwood, Steven; Smith, Victoria; Stewart, Timothy A.; Tumas, Daniel; Watanabe, Colin K.; Wood, William I.; Zhang, Zemin

PATENT ASSIGNEE(S): Genentech, Inc., USA

SOURCE: PCT Int. Appl., 813 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 142

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001040466	A2	20010607	WO 2000-US32678	20001201 <--
WO 2001040466	A3	20020510		
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WO 2000032776	A2	20000608	WO 1999-US28301	19991201 <--
WO 2000032776	A3	20001228		
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AB The present invention is directed to novel polypeptides and to nucleic acid mols. encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, **antibodies** which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention. The proteins show overexpression in cancer and may of diagnostic use. Certain of the proteins were found to form complexes with one another.

IC C12N015-12; C07K014-47
CC 3-2 (Biochemical Genetics)
Section cross-reference(s): 6
IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO1279, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO1286, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO1338, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO1343, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO172, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO195, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO198, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)

- IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO202, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
- IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO215, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
- IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO217, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
- IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO221, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
- IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO222, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
- IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO245, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
- IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO265, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
- IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL

- (Biological study); USES (Uses)
(PRO266, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
- IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO322, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
- IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO337, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
- IT Proteins, specific or class
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(PRO344, stimulation of **tumor necrosis factor** α release by; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
- IT **Immunoglobulins**
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(fusion products, with secreted and transmembrane proteins of human; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
- IT **Immunoglobulins**
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(heavy chains, constant region C-terminal fragment, fusion products with secreted and transmembrane proteins of human; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
- IT **Antibodies**
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(humanized, to secreted and transmembrane proteins of human; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
- IT **Antibodies**
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(monoclonal, to secreted and transmembrane proteins of human; secreted and transmembrane proteins identified by sequence comparison and cDNAs encoding them and their uses)
- IT **Antibodies**
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(to secreted and transmembrane proteins of human; secreted and transmembrane proteins identified by sequence comparison and cDNAs

encoding them and their uses)

IT 185260-79-1, Protein PRO183 (human clone DNA28498) 185915-99-5, Protein PRO184 (human clone DNA28500) 191745-53-6 195460-88-9 197982-35-7, Protein PRO215 (human clone DNA32288-1132) 198362-33-3 200515-38-4, Protein PRO265 (human clone DNA36350-1158) 202220-47-1, Protein PRO288 (human clone DNA35663-1129) 205599-84-4, Interleukin XX (human precursor) **206455-34-7**, Protein (human gene zins3 precursor)

207353-75-1 208473-02-3 208668-47-7 208947-13-1, Protein PRO242 (human clone DNA33785-1143) 209057-22-7, Protein PRO719 (human clone DNA49646-1327) 209859-03-0, Protein PRO1192 (human clone DNA62814-1521) 210479-05-3, Protein PRO1308 (human clone DNA62306-1570) 211182-16-0, Neuropsin (human hippocampus) 211926-26-0 212705-30-1, Protein PRO619 (human clone DNA49821-1562) 212841-11-7 213470-84-9 214069-96-2 **214137-51-6** 214473-24-2, Proteinase, serine (human gene TLSP) 214684-10-3 214968-93-1, Protein CRSP-3 (human cysteine-rich) 215663-51-7, Protein PRO1031 (human clone DNA59294-1381) 216373-38-5, Protein (human gene $\delta 2$ precursor) 218610-75-4 218947-99-0 219680-09-8 219709-17-8 **220198-27-6** 220974-18-5 221183-41-1, Protein PRO1917 (human clone DNA76400-2528) 221216-74-6 221337-66-2 221337-72-0, Protein PRO217 (human clone DNA33094-1131) 221337-87-7, Protein PRO187 (human clone DNA27864-1155) 221337-90-2 221337-92-4, Protein PRO246 (human clone DNA35639-1172) 221337-94-6 221338-03-0 221369-70-6 221369-71-7 221369-73-9 221369-74-0, Protein PRO301 (human clone DNA40628-1216) 221369-79-5 221369-80-8 221626-43-3, Protein PRO216 (human clone UNQ190) 221649-74-7, Protein PRO196 (human clone DNA22779-1130) 221649-76-9 221877-29-8 221877-35-6, Protein PRO266 (human clone DNA37150-1178) 221877-41-4 221877-49-2 221877-53-8 221877-60-7 **221877-67-4** 221877-77-6 **221878-56-4** 221878-72-4, Protein PRO331 (human clone DNA40981-1234) 221878-88-2 221879-48-7 222190-03-6, Protein PRO536 (human clone DNA49142-1430) 222538-58-1, Protein PRO365 (human clone DNA46777-1253) 222614-92-8, Protein PRO1007 (human clone DNA57690-1374) 222618-83-9, Protein PRO1132 (human clone DNA59767-1489) 223115-67-1, Protein (human fetus clone ON056) 223415-68-7, Protein PRO285 (human clone DNA40021) **223695-92-9** 225371-37-9 226934-63-0 226934-69-6, Protein PRO323 (human clone UNQ284) 227792-85-0, Protein PRO791 (human clone DNA57838-1337) 229477-05-8 233751-29-6 237746-51-9, Cerebellin-2 (human precursor) 242795-00-2, Protein PRO363 (human clone DNA45419-1252) 242796-00-5, Protein PRO846 (human clone DNA44196-1353) 242796-02-7 242796-06-1 243122-13-6 243122-19-2 **243122-35-2**, Protein PRO1114 (human clone DNA57033-1403) 243123-30-0 243123-32-2 243123-56-0, Protein PRO337 (human clone DNA43316-1237) 243976-42-3, Protein PRO1195 (human clone DNA65412-1523) 244014-65-1, Cytokine EF-7 (human) **244141-38-6** 248910-31-8 249906-49-8 249906-52-3 249910-22-3 249910-52-9 250246-70-9, Receptor (human Incyte clone 2057886) 250282-83-8 **251929-74-5**, Protein PRO836 (human clone DNA59620-1463) 251929-78-9 252050-43-4, Protein PRO1080 (human clone DNA56047-1456) 252050-49-0, Protein PRO1016 (human clone DNA56113-1378) 252050-92-3, Protein PRO1056 (human clone DNA57693-1424) 252051-35-7, Protein PRO1198 (human clone DNA60622-1525) 252051-40-4, Protein PRO1159 (human clone DNA60627-1508) 252051-48-2, Protein PRO1312 (human clone DNA61873-1574) 252051-62-0, Protein PRO1358 (human clone DNA64890-1612) 252051-68-6, Protein PRO1271 (human clone DNA66309-1538) 252196-94-4, Protein PRO812 (human clone DNA59205-1421) 252197-03-8, Protein PRO1066 (human clone DNA59215-1425) 252197-05-0 252197-08-3, Protein PRO1360 (human clone DNA59488-1603) **252197-98-1** 252198-22-4, Protein PRO1181 (human clone DNA59847-1511) 252198-43-9, Protein PRO1126 (human clone DNA60615-1483) 252198-51-9, Protein PRO1186 (human clone DNA60621-1516)

252199-51-2, Protein PRO1387 (human clone DNA68872-1620) 252199-54-5,
 Protein PRO1384 (human clone DNA71159-1617) **252868-76-1**
 253418-95-0 253419-03-3 253419-11-3, Protein PRO1343 (human clone
 DNA66675-1587) 253419-33-9 255889-03-3 257259-06-6, Protein PRO4357
 (human clone DNA84917-2597) 259129-20-9 259161-51-8 259161-77-8,
 Protein PRO381 (human clone DNA44194-1317) 259520-05-3 260382-25-0
 260382-26-1 260382-27-2 260534-91-6 260534-92-7, Protein PRO1475
 (human clone DNA61185-1646) 260534-94-9 260535-01-1 260535-04-4
 260535-20-4, Protein PRO1418 (human clone DNA68864-1629) 260535-36-2
 260535-42-0, Protein PRO1474 (human clone DNA73739-1645) 260535-51-1
 260535-52-2 260535-53-3 260535-57-7 261755-05-9 271236-76-1
 271562-83-5 277762-02-4 277762-05-7 292889-88-4, Protein (human gene
 YME1L) 294903-67-6 297774-89-1, Protein PRO1887 (human clone
 DNA79862-2522) 297774-90-4, Protein PRO4353 (human clone DNA80145-2594)
 297774-94-8, Protein PRO5990 (human clone DNA96042-2682) 299467-18-8,
 Protein CGI-124 (human) 300432-82-0 307356-24-7 308308-75-0
308853-05-6, Protein PRO526 (human clone DNA44184-1319)
 309305-99-5 310909-22-9, Protein PRO9828 (human clone DNA142238-2768)
 311820-96-9, Protein PRO1310 (human clone DNA47394-1572) 311821-00-8,
 Protein PRO1120 (human clone DNA48606-1479) 312333-86-1, Protein PRO1188
 (human clone DNA52598-1518) 312334-01-3, Protein PRO1111 (human clone
 DNA58721-1475) 312334-09-1, Protein PRO1309 (human clone DNA59588-1571)
312334-11-5, Protein PRO1107 (human clone DNA59606-1471)
 312334-18-2, Protein PRO1154 (human clone DNA59846-1503) 312334-27-3,
 Protein PRO185 (human clone DNA28503) 312642-35-6, Protein PRO4302
 (human clone DNA92218-2554) **312642-37-8** 312776-68-4
 314326-45-9 314326-59-5, Protein PRO350 (human clone DNA44175-1314)
 321924-91-8 **326042-26-6** 327631-84-5 328316-90-1, Protein
 (human clone DKFZphtes3_7p9) 329387-40-8 330226-54-5 331481-03-9,
 Protein ALEX3 (human testis gene alex3) 337536-56-8, Protein NOV3 (human
 clone AP000597_A) 337545-34-3 343664-46-0 **343900-68-5**
 343900-72-1 343900-75-4 343900-78-7 343900-80-1 343900-83-4
343900-85-6 343900-90-3 343900-92-5 343900-96-9
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 343901-08-6 **343901-12-2** **343901-14-4** 343901-16-6
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 343901-28-0 343901-30-4 343901-35-9 343901-37-1 343901-39-3
 343901-41-7 343901-43-9 343901-45-1 343901-47-3 343901-50-8
 343901-52-0 343901-54-2 343901-56-4 **343901-58-6**
 343901-60-0 343901-62-2 343901-64-4 **343901-66-6**
 343901-68-8 343901-71-3 343901-76-8 **343901-78-0**
343901-81-5 343901-83-7 343901-86-0 343901-88-2

RL: BSU (Biological study, unclassified); PRP (Properties); THU
 (Therapeutic use); BIOL (Biological study); USES (Uses)

(amino acid sequence; secreted and transmembrane proteins identified by
 sequence comparison and cDNAs encoding them and their uses)

IT 343901-90-6 343901-92-8 343901-95-1 343901-97-3 343902-02-3
 343902-06-7 343902-08-9 343902-10-3, Protein PRO4978 (human clone
 DNA95930) 343902-12-5 343902-14-7 343902-16-9 343902-18-1
 343902-20-5 343902-22-7 343902-25-0 343902-27-2 343902-30-7
 343902-32-9 343902-34-1 **343987-79-1** **343987-82-6**
 343987-85-9 343987-87-1 343987-90-6 343987-92-8 343987-94-0
 343987-97-3 **343987-99-5** 343988-01-2 343988-03-4
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RL: BSU (Biological study, unclassified); PRP (Properties); THU
 (Therapeutic use); BIOL (Biological study); USES (Uses)

(amino acid sequence; secreted and transmembrane proteins identified by
 sequence comparison and cDNAs encoding them and their uses)

IT 206455-34-7, Protein (human gene zins3 precursor)
214137-51-6 220198-27-6 221877-67-4
221878-56-4 223695-92-9 243122-35-2, Protein
PRO1114 (human clone DNA57033-1403) 244141-38-6
251929-74-5, Protein PRO836 (human clone DNA59620-1463)
252197-98-1 252868-76-1 308853-05-6, Protein
PRO526 (human clone DNA44184-1319) 312334-11-5, Protein PRO1107
(human clone DNA59606-1471) 312642-37-8 326042-26-6
343900-68-5 343900-85-6 343901-12-2
343901-14-4 343901-58-6 343901-66-6
343901-78-0 343901-81-5 343987-79-1
343987-82-6 343987-99-5
RL: BSU (Biological study, unclassified); PRP (Properties); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
(amino acid sequence; secreted and transmembrane proteins identified by
sequence comparison and cDNAs encoding them and their uses)

RN 206455-34-7 HCAPLUS
CN Protein (human gene zins3 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 214137-51-6 HCAPLUS
CN Secretory protein (human clone crl1625 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 220198-27-6 HCAPLUS
CN Adipocyte-specific protein (human clone zsig37 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 221877-67-4 HCAPLUS
CN Protein PRO235 (human clone UNQ209/DNA35558-1167) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 221878-56-4 HCAPLUS
CN Protein PRO328 (human clone UNQ289/DNA40587-1231) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 223695-92-9 HCAPLUS
CN Sulfotransferase, heparitin 3- (human isoenzyme 2) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 243122-35-2 HCAPLUS
CN Protein PRO1114 (human clone UNQ557 extracellular domain-containing
precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 244141-38-6 HCAPLUS
CN Electron-transporting protein NHETP-1 (human Incyte clone 1709102) (9CI)
(CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 251929-74-5 HCAPLUS
CN Protein (human clone 2479282 transmembrane) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 252197-98-1 HCAPLUS
CN Membrane protein PRO848 (human clone DNA59839-1461 precursor) (9CI) (CA
INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 252868-76-1 HCAPLUS
CN Immunomodulatory protein zsig57 (human precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 308853-05-6 HCAPLUS
CN Protein PRO526 (human precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 312334-11-5 HCAPLUS
CN Protein PRO1107 (human clone DNA59606-1471) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 312642-37-8 HCAPLUS
CN Tumor-associated protein PRO4400 (human clone DNA87974-2609 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 326042-26-6 HCAPLUS
CN Protein PPIM-23 (human Incyte clone 3883861) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 343900-68-5 HCAPLUS
CN Protein PRO3574 (human clone DNA 19360-2552) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 343900-85-6 HCAPLUS
CN Protein PRO1879 (human clone DNA54009-2517) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 343901-12-2 HCAPLUS
CN Protein PRO1906 (human clone DNA76395-2527) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 343901-14-4 HCAPLUS
CN Protein PRO1870 (human clone DNA77622-2516) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 343901-58-6 HCAPLUS
CN Protein PRO4398 (human clone DNA86592-2607) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 343901-66-6 HCAPLUS
CN Protein PRO4340 (human clone DNA87656-2582) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 343901-78-0 HCAPLUS
CN Protein PRO6014 (human clone DNA92217-2697) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 343901-81-5 HCAPLUS
CN Protein PRO4322 (human clone DNA92223-2567) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 343987-79-1 HCAPLUS
CN Protein PRO6028 (human clone DNA98600-2703) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 343987-82-6 HCAPLUS

CN Protein PRO4315 (human clone DNA99393-2560) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 343987-99-5 HCAPLUS

CN Protein PRO6181 (human clone DNA107698-2715) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L61 ANSWER 9 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:168142 HCAPLUS

DOCUMENT NUMBER: 134:232695

TITLE: Nucleic acids encoding human secreted and transmembrane polypeptides

INVENTOR(S): Eaton, Dan L.; Filvaroff, Ellen; Gerritsen, Mary E.;
Goddard, Audrey; Godowski, Paul J.; Grimaldi,
Christopher J.; Gurney, Austin L.; Watanabe, Colin K.;
Wood, William I.

PATENT ASSIGNEE(S): Genentech, Inc., USA

SOURCE: PCT Int. Appl., 278 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 142

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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001016318	A2	20010308	WO 2000-US23328	20000824 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
NZ 528704	A	20050225	NZ 1999-528704	19990308
WO 2000012708	A2	20000309	WO 1999-US20111	19990901 <--
WO 2000012708	A3	20011004		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
WO 2000015796	A2	20000323	WO 1999-US21090	19990915 <--
WO 2000015796	A3	20000824		
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US 1998-103678P	P 19981008
US 1998-104257P	P 19981014
US 1998-105169P	P 19981022
US 1998-63561P	P 19981028
US 1998-106464P	P 19981030
US 1998-107783P	P 19981110
US 1998-108802P	P 19981117
US 1998-109304P	P 19981120
WO 1998-US24855	A 19981120
WO 1998-US25108	A1 19981201
US 1998-202054	A1 19981207
US 1998-112514P	P 19981215
US 1998-216021	B1 19981216
US 1998-113296P	P 19981222
US 1998-113300P	P 19981222
US 1998-218517	B1 19981222
US 1998-113430P	P 19981223
US 1998-113605P	P 19981223
US 1998-113621P	P 19981223
US 1998-114140P	P 19981223
WO 1999-US106	A 19990105
US 1999-115552P	P 19990112
US 1999-116843P	P 19990122
US 1999-119358P	P 19990209
US 1999-119537P	P 19990210
US 1999-254311	A1 19990303
WO 1999-US5028	W 19990308
WO 1999-US5190	A 19990310
US 1999-123957P	P 19990312
US 1999-125774P	P 19990323
US 1999-125778P	P 19990323
US 1999-125826P	P 19990324
US 1999-126773P	P 19990329
US 1999-127035P	P 19990331
US 1999-127706P	P 19990405
US 1999-129122P	P 19990413
US 1999-292404	A1 19990414
WO 1999-US8615	W 19990420
US 1999-130232P	P 19990421
US 1999-130359P	P 19990421
US 1999-131270P	P 19990427
US 1999-131272P	P 19990427
US 1999-131291P	P 19990427
US 1999-131293P	P 19990427
US 1999-131445P	P 19990428
US 1999-132371P	P 19990504
US 1999-132379P	P 19990504
US 1999-132383P	P 19990504
US 1999-134287P	P 19990514
US 1999-311832	A1 19990514
WO 1999-US10733	A 19990514
US 1999-135750P	P 19990525
WO 1999-US12252	A1 19990602

US 1999-138166P	P	19990608
US 1999-139695P	P	19990615
US 1999-141037P	P	19990623
US 1999-143048P	P	19990707
US 1999-144758P	P	19990720
US 1999-144791P	P	19990720
US 1999-145070P	P	19990720
US 1999-145698P	P	19990726
US 1999-146222P	P	19990728
US 1999-146970P	P	19990803
US 1999-149395P	P	19990817
US 1999-149396P	P	19990817
US 1999-380137	A1	19990825
US 1999-380138	B1	19990825
US 1999-380139	B1	19990825
US 1999-380142	B1	19990825
US 1999-151689P	P	19990831
US 1999-151733P	P	19990831
US 1999-151736P	P	19990831
US 1999-151791P	P	19990831
US 1999-920594	A	19990908
WO 1999-US20594	A	19990908
WO 1999-US20944	A	19990913
US 1999-153805P	P	19990914
US 1999-153806P	P	19990914
US 1999-153856P	P	19990914
US 1999-153857P	P	19990914
US 1999-153904P	P	19990914
US 1999-397342	A1	19990915
US 1999-921090	A	19990915
WO 1999-US21194	W	19990915
WO 1999-US21547	A	19990915
CA 1999-2344465	A3	19991005
WO 1999-US23089	A	19991005
US 1999-403297	B1	19991018
US 1999-160407P	P	19991019
US 1999-160408P	P	19991019
US 1999-403844	A1	19991027
US 1999-162506P	P	19991029
US 1999-164495P	P	19991109
US 1999-164499P	P	19991109
US 1999-164500P	P	19991109
US 1999-423844	B1	19991112
US 1999-166360P	P	19991116
US 1999-166363P	P	19991116
US 1999-166364P	P	19991116
WO 1999-US28214	A	19991129
WO 1999-US28313	W	19991130
WO 1999-US28301	A1	19991201
WO 1999-US28634	W	19991201
EP 1999-960644	A3	19991202
WO 1999-US28551	W	19991202
WO 1999-US28564	A1	19991202
WO 1999-US28565	W	19991202
WO 1999-US30095	W	19991216
US 1999-99309	A	19991220
WO 1999-US30911	A1	19991220
WO 1999-US30999	A1	19991220
US 1999-468978	A1	19991221

WO 1999-US30720	W	19991222
US 1999-172059P	P	19991223
US 1999-172096P	P	19991223
WO 1999-US31243	W	19991230
WO 1999-US31274	W	19991230
WO 2000-US219	W	20000105
WO 2000-US277	W	20000106
WO 2000-US376	W	20000106
US 2000-177118P	P	20000120
WO 2000-US3565	A1	20000211
US 2000-441400	A	20000222
WO 2000-US4914	A	20000224
WO 2000-US5004	A1	20000224
CA 2000-2361221	A3	20000301
EP 2000-917717	A3	20000301
WO 2000-US5746	A	20000302
WO 2000-US5841	W	20000302
US 2000-186968P	P	20000306
WO 2000-US6471	W	20000309
WO 2000-US6319	A	20000310
US 2000-189320P	P	20000314
US 2000-189328P	P	20000314
WO 2000-US6884	A	20000315
WO 2000-US7377	A1	20000320
US 2000-190828P	P	20000321
US 2000-191015P	P	20000321
US 2000-191048P	P	20000321
US 2000-191314P	P	20000321
WO 2000-US7532	W	20000321
US 2000-192655P	P	20000328
US 2000-193032P	P	20000329
US 2000-193053P	P	20000329
WO 2000-US8439	W	20000330
US 2000-194449P	P	20000404
US 2000-194647P	P	20000404
US 2000-195975P	P	20000411
US 2000-196000P	P	20000411
US 2000-196187P	P	20000411
US 2000-196690P	P	20000411
US 2000-196820P	P	20000411
US 2000-198121P	P	20000418
US 2000-198585P	P	20000418
US 2000-199397P	P	20000425
US 2000-199550P	P	20000425
US 2000-199654P	P	20000425
US 2000-201516P	P	20000503
WO 2000-US13358	A	20000515
US 2000-204675P	P	20000517

AB The present invention is directed to novel human polypeptides and to nucleic acid mols. encoding those polypeptides. Eighty-four cDNAs clones were identified by homol. screening of extracellular domains (including the secretion signal sequence, if any), amylase screening, and signal algorithm anal. The proteins possess various useful biol. activities: including (1), pericyte c-fos induction, (2) affecting the release of glucose or free fatty acid uptake in skeletal muscle, (3) stimulating the release of proteoglycans from cartilage, and (4) stimulating **tumor necrosis factor-.alpha.** release in human blood. Many of the proteins show differential expression between normal and tumor tissues. Also provided herein are vectors and host cells

comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, **antibodies** which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

- IC ICM C12N015-12
ICS C07K014-47; C07K014-705; G01N033-53; C12N015-62; C07K016-18
- CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13, 63
- IT **Antibodies**
Toxins
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(conjugates; nucleic acids encoding human secreted and transmembrane polypeptides)
- IT **Immunoglobulins**
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(fusion products; nucleic acids encoding human secreted and transmembrane polypeptides)
- IT **Antibodies**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(humanized; nucleic acids encoding human secreted and transmembrane polypeptides)
- IT **Antibodies**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(monoclonal; nucleic acids encoding human secreted and transmembrane polypeptides)
- IT **Antibodies**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(nucleic acids encoding human secreted and transmembrane polypeptides)
- IT **Antibodies**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(single chain; nucleic acids encoding human secreted and transmembrane polypeptides)
- IT Fusion proteins (chimeric proteins)
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(with epitope tags or Fc region of **Ig**; nucleic acids encoding human secreted and transmembrane polypeptides)
- IT 187759-17-7P 209859-57-4P 209903-38-8P 217795-45-4P, Protein (human clone HP10408) 218948-50-6P 219709-98-5P 220709-69-3P 221877-81-2P 222725-02-2P, Uncoupling protein 4 (human) **224301-63-7P**
225371-37-9P 229324-31-6P, Interleukin 18 (mouse) 242794-87-2P
243122-70-5P 249619-76-9P, Peflin (human fetus) 251926-73-5P
252049-80-2P 252049-87-9P 252050-21-8P 252050-53-6P
252050-55-8P 252050-58-1P 252050-63-8P 252050-78-5P
252050-81-0P 252051-27-7P 252051-38-0P 252051-43-7P 252051-45-9P
252051-66-4P 252196-74-0P 252196-79-5P **252196-85-3P**
252196-92-2P 252196-96-6P 252196-98-8P 252197-23-2P 252197-37-8P
252726-25-3P, Carbonic anhydrase 14 (human) 253418-65-4P 253419-42-0P
253579-88-3P 257854-39-0P 260342-53-8P 260342-60-7P
260382-31-8P 260534-96-1P 260535-00-0P 260535-03-3P 260535-05-5P
260535-07-7P 260535-12-4P 260535-15-7P 260535-21-5P 260535-22-6P
260535-24-8P 260535-25-9P 260535-36-2P 260535-38-4P 260535-39-5P
260535-46-4P 260535-53-3P 260535-57-7P 260774-48-9P 280590-48-9P
294899-53-9P 297774-91-5P 297774-94-8P 302874-51-7P
321202-67-9P 326944-83-6P 327631-84-5P 329286-29-5P
329286-30-8P 329335-25-3P 329799-90-8P **329799-91-9P**

329799-99-7P 329800-00-2P 329800-01-3P 329800-07-9P

329800-10-4P 329800-21-7P 329800-25-1P

RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(amino acid sequence; nucleic acids encoding human secreted and transmembrane polypeptides)

IT 224301-63-7P 252050-55-8P 252196-85-3P

253579-88-3P 321202-67-9P 329799-91-9P

329799-99-7P

RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(amino acid sequence; nucleic acids encoding human secreted and transmembrane polypeptides)

RN 224301-63-7 HCAPLUS

CN Secretory protein (human clone HMEET96 266-amino acid precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 252050-55-8 HCAPLUS

CN Membrane protein PRO937 (human clone DNA56436-1448 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 252196-85-3 HCAPLUS

CN Membrane protein PRO1138 (human clone DNA58850-1495 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 253579-88-3 HCAPLUS

CN Protein (human clone HP10537 hydrophobic domain-containing) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 321202-67-9 HCAPLUS

CN Cytokine receptor Zcytor14-1 (synthetic human) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 329799-91-9 HCAPLUS

CN Protein PRO3566 (human clone DNA59844-2542 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 329799-99-7 HCAPLUS

CN Protein PRO1342 (human clone DNA66674-1599 precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L61 ANSWER 10 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:814344 HCAPLUS

DOCUMENT NUMBER: 134:9335

TITLE: Death domain-containing receptor 4 for treating immune disorders and cancers

INVENTOR(S): Ni, Jian; Rosen, Craig A.; Pan, James G.; Gentz, Reiner L.; Dixit, Vishva M.

PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA; The Regents of the University of Michigan
 SOURCE: PCT Int. Appl., 269 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000067793	A1	20001116	WO 2000-US12163	20000505 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2373063	AA	20001116	CA 2000-2373063	20000505 <--
EP 1178828	A1	20020213	EP 2000-932061	20000505
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002544172	T2	20021224	JP 2000-616818	20000505
PRIORITY APPLN. INFO.:			US 1999-132922P	P 19990506
			WO 2000-US12163	W 20000505

AB The present invention relates to novel Death Domain-Containing Receptor-4 (DR4) proteins which are members of the tumor necrosis factor (TNF) receptor family. In particular, isolated nucleic acid mols. are provided encoding the human DR4 proteins. DR4 polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of DR4 activity and methods for using DR4 polynucleotides and polypeptides in treatment of immune disorders and cancers.

IC ICM A61K039-395
 ICS C07K001-100; C07K014-00; C07K017-00

CC 63-3 (Pharmaceuticals)
 Section cross-reference(s): 1, 2, 9, 15

IT Tumor necrosis factors
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (- γ , **antibodies** specific for; death domain-containing receptor 4 for treating immune disorders and cancers)

IT **Tumor necrosis factors**
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (- γ - α , **antibodies** specific for; death domain-containing receptor 4 for treating immune disorders and cancers)

IT Tumor necrosis factors
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (- γ - β , **antibodies** specific for; death domain-containing receptor 4 for treating immune disorders and cancers)

IT Lymphotoxin
 Tumor necrosis factors
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (**antibodies** specific for; death domain-containing receptor 4 for treating immune disorders and cancers)

IT **Antibodies**
 RL: BPR (Biological process); BSU (Biological study, unclassified); THU

(Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(chimeric; death domain-containing receptor 4 for treating immune disorders
and cancers)

IT **Antibodies**

RL: BPR (Biological process); BSU (Biological study, unclassified); THU
(Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(death domain-containing receptor 4 for treating immune disorders and
cancers)

IT **Immunoglobulins**

RL: BPR (Biological process); BSU (Biological study, unclassified); THU
(Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(fragments, Fab; death domain-containing receptor 4 for treating immune
disorders and cancers)

IT **Immunoglobulins**

RL: BPR (Biological process); BSU (Biological study, unclassified); THU
(Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(fragments, scFv; death domain-containing receptor 4 for treating immune
disorders and cancers)

IT **Antibodies**

RL: BPR (Biological process); BSU (Biological study, unclassified); THU
(Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(humanized; death domain-containing receptor 4 for treating immune
disorders and cancers)

IT **Antibodies**

RL: BPR (Biological process); BSU (Biological study, unclassified); THU
(Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(monoclonal; death domain-containing receptor 4 for treating immune
disorders and cancers)

IT **189704-47-0**

RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP
(Properties); THU (Therapeutic use); BIOL (Biological study); OCCU
(Occurrence); USES (Uses)
(amino acid sequence; death domain-containing receptor 4 for treating
immune disorders and cancers)

IT **307008-44-2 307008-45-3 307008-46-4**

RL: PRP (Properties)
(unclaimed sequence; death domain-containing receptor 4 for treating immune
disorders and cancers)

IT **189704-47-0**

RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP
(Properties); THU (Therapeutic use); BIOL (Biological study); OCCU
(Occurrence); USES (Uses)
(amino acid sequence; death domain-containing receptor 4 for treating
immune disorders and cancers)

RN 189704-47-0 HCAPLUS

CN DR4 receptor (death receptor 4) (human precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **307008-46-4**

RL: PRP (Properties)
(unclaimed sequence; death domain-containing receptor 4 for treating immune
disorders and cancers)

RN 307008-46-4 HCAPLUS

CN 17: PN: WO0067793 FIGURE: 2 unclaimed sequence (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L61 ANSWER 11 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:628154 HCAPLUS

DOCUMENT NUMBER: 133:236828

TITLE: **Tumor necrosis factor**
receptors 6.alpha. and 6βINVENTOR(S): Gentz, Reiner L.; Ni, Jian; Ebner, Reinhard; Yu,
Guo-liang; Ruben, Steven M.; Feng, Ping

PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA

SOURCE: PCT Int. Appl., 332 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000052028	A1	20000908	WO 2000-US5686	20000303 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2362929	AA	20000908	CA 2000-2362929	20000303 <--
EP 1159286	A1	20011205	EP 2000-916071	20000303 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2003512020	T2	20030402	JP 2000-602253	20000303
NZ 513294	A	20040430	NZ 2000-513294	20000303
AU 774845	B2	20040708	AU 2000-37234	20000303
AU 763955	B2	20030807	AU 2001-38916	20010424
PRIORITY APPLN. INFO.:			US 1999-121774P	P 19990304
			US 1999-124092P	P 19990312
			US 1999-131279P	P 19990427
			US 1999-131964P	P 19990430
			US 1999-146371P	P 19990802
			US 1999-168235P	P 19991201
			AU 1998-58157	A 19980113
			WO 2000-US5686	W 20000303
AB	The present invention relates to novel Tumor Necrosis Factor Receptor proteins. In particular, isolated nucleic acid mols. are provided encoding the human TNFR-6α and -6β proteins. TNFR-6α and -6β polypeptides are also provided as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of TNFR-6α and -6β activity. Also provided are diagnostic methods for detecting immune system-related disorders and therapeutic methods for treating immune system-related disorders.			
IC	ICM C07H021-04 ICS C07K014-00; C12P021-00; C12N005-00; C12N005-06; C12N015-63; C12Q001-68			
CC	15-5 (Immunochemistry) Section cross-reference(s): 1, 3			
ST	tumor necrosis factor receptor 6 antibody ; TNFR6a TNFR6b monoclonal antibody gene therapy; immune disease TNFR6a TNFR6b mol cloning			

- IT **Tumor necrosis factor** receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(6 α ; **tumor necrosis factor**
receptors 6 α and 6 β and gene and
antibodies for diagnosis and therapy of immune diseases)
- IT Tumor necrosis **factor** receptors
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(6 β ; **tumor necrosis factor** receptors
6 α and 6 β and gene and **antibodies** for
diagnosis and therapy of immune diseases)
- IT Proteins, specific or class
RL: BSU (Biological study, unclassified); BUU (Biological use,
unclassified); BIOL (Biological study); USES (Uses)
(A, tag; **tumor necrosis factor** receptors
6 α and 6 β and gene and **antibodies** for
diagnosis and therapy of immune diseases)
- IT Animal cell line
(CHO, host cell; **tumor necrosis factor**
receptors 6 α and 6 β and gene and
antibodies for diagnosis and therapy of immune diseases)
- IT Animal cell line
(COS, host cell; **tumor necrosis factor**
receptors 6 α and 6 β and gene and
antibodies for diagnosis and therapy of immune diseases)
- IT Cytotoxicity
(FasL-mediated; **tumor necrosis factor**
receptors 6 α and 6 β and gene and
antibodies for diagnosis and therapy of immune diseases)
- IT **Immunoglobulins**
RL: BSU (Biological study, unclassified); BUU (Biological use,
unclassified); BIOL (Biological study); USES (Uses)
(G, tag; **tumor necrosis factor** receptors
6 α and 6 β and gene and **antibodies** for
diagnosis and therapy of immune diseases)
- IT **Immunoglobulins**
RL: BSU (Biological study, unclassified); BUU (Biological use,
unclassified); BIOL (Biological study); USES (Uses)
(G1; **tumor necrosis factor** receptors 6
 α and 6 β and gene and **antibodies** for
diagnosis and therapy of immune diseases)
- IT **Immunoglobulins**
RL: BSU (Biological study, unclassified); BUU (Biological use,
unclassified); BIOL (Biological study); USES (Uses)
(G3; **tumor necrosis factor** receptors 6
 α and 6 β and gene and **antibodies** for
diagnosis and therapy of immune diseases)
- IT Proteins, specific or class
RL: BSU (Biological study, unclassified); BUU (Biological use,
unclassified); BIOL (Biological study); USES (Uses)
(MBP (maltose-binding protein), tag; **tumor necrosis**
factor receptors 6 α and 6 β and gene and
antibodies for diagnosis and therapy of immune diseases)
- IT Gene, animal
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)
(TNFR-6; **tumor necrosis factor** receptors
6 α and 6 β and gene and **antibodies** for
diagnosis and therapy of immune diseases)

IT Biochemical molecules
(apoptosis-inducing mol. II or AIM-II; **tumor necrosis
factor** receptors 6 α and 6 β and gene and
antibodies for diagnosis and therapy of immune diseases)

IT Immunity
(disorder; **tumor necrosis factor**
receptors 6 α and 6 β and gene and
antibodies for diagnosis and therapy of immune diseases)

IT Lymphatic system
(edema; **tumor necrosis factor** receptors 6
 α and 6 β and gene and **antibodies** for
diagnosis and therapy of immune diseases)

IT Baculoviridae
(expression system; **tumor necrosis factor**
receptors 6 α and 6 β and gene and
antibodies for diagnosis and therapy of immune diseases)

IT Transplant and Transplantation
(graft-vs.-host reaction; **tumor necrosis
factor** receptors 6 α and 6 β and gene and
antibodies for diagnosis and therapy of immune diseases)

IT Escherichia coli
(host cell; **tumor necrosis factor**
receptors 6 α and 6 β and gene and
antibodies for diagnosis and therapy of immune diseases)

IT Liver, disease
(injury; **tumor necrosis factor** receptors
6 α and 6 β and gene and **antibodies** for
diagnosis and therapy of immune diseases)

IT Edema
(lymph-; **tumor necrosis factor** receptors
6 α and 6 β and gene and **antibodies** for
diagnosis and therapy of immune diseases)

IT **Antibodies**
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(monoclonal; **tumor necrosis factor**
receptors 6 α and 6 β and gene and
antibodies for diagnosis and therapy of immune diseases)

IT Genetic vectors
(recombinant; **tumor necrosis factor**
receptors 6 α and 6 β and gene and
antibodies for diagnosis and therapy of immune diseases)

IT Apoptosis
DNA sequences
Diabetes mellitus
Gene therapy
Ischemia
Molecular cloning
Protein sequences
Wound healing
(**tumor necrosis factor** receptors 6
 α and 6 β and gene and **antibodies** for
diagnosis and therapy of immune diseases)

IT Polynucleotides
cDNA

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(**tumor necrosis factor** receptors 6
 α and 6 β and gene and **antibodies** for
 diagnosis and therapy of immune diseases)

IT **Antibodies**

RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(**tumor necrosis factor** receptors 6
 α and 6 β and gene and **antibodies** for
 diagnosis and therapy of immune diseases)

IT **Fas ligand**

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(**tumor necrosis factor** receptors 6
 α and 6 β and gene and **antibodies** for
 diagnosis and therapy of immune diseases)

IT **Albumins, biological studies**

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(**tumor necrosis factor** receptors 6
 α and 6 β and gene and **antibodies** for
 diagnosis and therapy of immune diseases)

IT **Fusion proteins (chimeric proteins)**

RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(**tumor necrosis factor** receptors 6
 α and 6 β and gene and **antibodies** for
 diagnosis and therapy of immune diseases)

IT 210227-94-4 210228-04-9 210300-22-4 292093-91-5 292093-92-6
 292093-93-7 292093-94-8 292093-95-9 292093-96-0 292093-97-1

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; **tumor necrosis factor**
 receptors 6 α and 6 β and gene and
antibodies for diagnosis and therapy of immune diseases)

IT 210227-99-9 292093-90-4

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(nucleotide sequence; **tumor necrosis factor**
 receptors 6 α and 6 β and gene and
antibodies for diagnosis and therapy of immune diseases)

IT 64134-30-1 92000-79-8

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(tag; **tumor necrosis factor** receptors 6
 α and 6 β and gene and **antibodies** for
 diagnosis and therapy of immune diseases)

IT 210050-11-6 210050-12-7 210050-13-8 210050-14-9 210050-16-1
 210050-17-2 210050-18-3 210050-19-4 210050-20-7 210299-58-4
 291782-31-5 291782-32-6 292152-91-1

RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(**tumor necrosis factor** receptors 6
 α and 6 β and gene and **antibodies** for
 diagnosis and therapy of immune diseases)

IT 191567-66-5 229477-44-5 292094-02-1 292094-03-2 292094-04-3
 292094-05-4 292094-06-5 292094-07-6 292094-08-7 292094-09-8

292094-10-1 292094-11-2

RL: PRP (Properties)

(unclaimed nucleotide sequence; **tumor necrosis factor** receptors 6 α and 6 β)

IT 106441-96-7 **125723-33-3**, Antigen CDw 40 (human precursor protein moiety reduced) 129203-92-5 133655-57-9 141961-30-0, Antigen CD 27 (human PBMC cell precursor protein moiety reduced) 142193-23-5, Antigen Fas (human clone pF58 precursor reduced) 146705-43-3, Antigen CD 30 (human clone CD30-5 precursor reduced) 151217-01-5, Protein (smallpox virus strain India-1967 gene G4R reduced) 159036-51-8 161446-09-9, Receptor 4-1BB (human precursor) 166025-61-2 171237-69-7

RL: PRP (Properties)

(unclaimed protein sequence; **tumor necrosis factor** receptors 6 α and 6 β)

IT **125723-33-3**, Antigen CDw 40 (human precursor protein moiety reduced)

RL: PRP (Properties)

(unclaimed protein sequence; **tumor necrosis factor** receptors 6 α and 6 β)

RN 125723-33-3 HCAPLUS

CN Antigen CDw 40 (human precursor protein moiety reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L61 ANSWER 12 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:457220 HCAPLUS

DOCUMENT NUMBER: 133:86094

TITLE: Human I κ B kinase IKK3, cDNA coding for it, and uses in screening anti-inflammatory agents

INVENTOR(S): Takemoto, Yoshihiro; Sakai, Yutaka; Hashimoto, Yasuhiro

PATENT ASSIGNEE(S): Glaxo Wellcome Kabushiki Kaisha, Japan

SOURCE: PCT Int. Appl., 102 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000039308	A1	20000706	WO 1999-JP7286	19991224 <--
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 2000018007	A5	20000731	AU 2000-18007	19991224 <--
EP 1141325	A1	20011010	EP 1999-961374	19991224 <--
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2002533127	T2	20021008	JP 2000-591199	19991224

US 6576439 B1 20030610 US 2001-868758 20010621
US 2003215879 A1 20031120 US 2003-408636 20030407
PRIORITY APPLN. INFO.: GB 1998-28704 A 19981224
WO 1999-JP7286 W 19991224
US 2001-868758 A3 20010621

AB A novel human kinase IKK3 has been identified which phosphorylates I κ B, and which is identical to KIAA0151. IKK3 contains 716 amino acids, and has 21% homol. with IKK1 and 23% with IKK2. MRNA expression of IKK3 is inducible by IL-1 and **TNF.alpha.** The over-expression of IKK3 leads to the activation of various inflammatory genes, such as IL-8, IL-6 and RANTES. Reagents which inhibit this kinase can be used as therapeutic tools to inhibit inflammation. The kinase can also be used as a target for drug screening to identify anti-inflammatory compds.

IC ICM C12N015-54
ICS C12N009-12; C12N015-11; C12N005-10; C07K016-40; G01N033-68

CC 7-2 (Enzymes)

Section cross-reference(s): 1, 3, 13

IT mRNA

RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)

(IKK3, inducible expression of, by IL-1 and **TNF**
 α ; human I κ B kinase IKK3, cDNA coding for it, and
uses in screening anti-inflammatory agents)

IT **Antibodies**

RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(anti-IKK3, increased kinase activity; human I κ B kinase IKK3,
cDNA coding for it, and uses in screening anti-inflammatory agents)

IT **247033-23-4**

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; human I κ B kinase IKK3, cDNA coding for it,
and uses in screening anti-inflammatory agents)

IT 195010-27-6 199878-03-0 **280149-12-4 280149-13-5**

280149-14-6 280149-15-7 280149-16-8

RL: PRP (Properties)

(unclaimed protein sequence; human I κ B kinase IKK3, cDNA coding
for it, and uses in screening anti-inflammatory agents)

IT **247033-23-4**

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; human I κ B kinase IKK3, cDNA coding for it,
and uses in screening anti-inflammatory agents)

RN 247033-23-4 HCAPLUS

CN Kinase (phosphorylating), I κ B protein (human gene IKK-i inducible isoenzyme) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **280149-12-4 280149-13-5 280149-14-6**

280149-15-7 280149-16-8

RL: PRP (Properties)

(unclaimed protein sequence; human I κ B kinase IKK3, cDNA coding
for it, and uses in screening anti-inflammatory agents)

RN 280149-12-4 HCAPLUS

CN 1: PN: WO0039308 SEQID: 41 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 280149-13-5 HCAPLUS

CN 2: PN: WO0039308 SEQID: 42 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 280149-14-6 HCAPLUS

CN 3: PN: WO0039308 SEQID: 43 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 280149-15-7 HCAPLUS

CN 4: PN: WO0039308 SEQID: 44 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 280149-16-8 HCAPLUS

CN 5: PN: WO0039308 SEQID: 45 unclaimed protein (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L61 ANSWER 13 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:401875 HCAPLUS

DOCUMENT NUMBER: 133:54564

TITLE: Sequences and characterization of the anti-apoptotic
protein encoded by human cytomegalovirus UL144 ORF

INVENTOR(S): Leong, Clement; Phillips, Joseph H.

PATENT ASSIGNEE(S): Schering Corporation, USA

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000034335	A2	20000615	WO 1999-US26035	19991203 <--
WO 2000034335	A3	20000810		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CZ,
DE, DK, DM, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP,
KG, KR, KZ, LC, LK, LR, LT, LU, LV, MA, MD, MG, MK, MN, MX, NO,
NZ, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
UZ, VN, YU, ZA

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1998-205018 A 19981204

AB The present invention relates to the anti-apoptotic protein encoded by human cytomegalovirus (CMV) UL144 ORF (open reading frame) which exhibits structural motifs characteristic of TNF receptor (TNFR, death-domain containing receptor) family. UL144 ORF (present in CMV Toledo isolate but not in AD169 strain) produces a 1kb transcript and encodes a highly glycosylated protein (about 45kda in size) with 176 residues (a predicted 20 aa (amino acid) signal peptide and 113 aa extracellular domain). UL144 protein containing two cysteine-rich domain (CRD) in the extracellular domain is likely a novel member of TNFR family and might be a good candidate to modulate the susceptibility to TNFR ligand-induced apoptosis. The expression of UL144 ORF can protect cells against apoptosis induced by three TNFR ligands: FAS-L, TRAIL, and **TNF.alpha.** Two possible mechanisms fro UL144 inhibitory effects are discussed and studied. Methods of preparing purified proteins and specific

antibodies and using them for therapeutic and diagnostic application are provided.

IC ICM C07K014-715
ICS C12N015-12; C12N015-63; C07K016-28
CC 3-3 (Biochemical Genetics)
Section cross-reference(s): 6, 13
IT **Antibodies**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(to CMV gene UL144 protein; sequences and characterization of
anti-apoptotic protein encoded by human cytomegalovirus UL144 ORF)
IT 129203-92-5 134773-87-8 142193-23-5, Antigen Fas (human clone pF58
precursor reduced) **189704-47-0** 197665-71-7 198917-33-8
202220-47-1 202834-38-6 213474-05-6
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP
(Properties); BIOL (Biological study); PROC (Process)
(amino acid sequence; sequences and characterization of anti-apoptotic
protein encoded by human cytomegalovirus UL144 ORF)
IT **189704-47-0**
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP
(Properties); BIOL (Biological study); PROC (Process)
(amino acid sequence; sequences and characterization of anti-apoptotic
protein encoded by human cytomegalovirus UL144 ORF)
RN 189704-47-0 HCAPLUS
CN DR4 receptor (death receptor 4) (human precursor) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L61 ANSWER 14 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:351561 HCAPLUS
DOCUMENT NUMBER: 133:16313
TITLE: Method for inhibiting macrophage infiltration using
monoclonal anti-alpha-d-**antibodies**
INVENTOR(S): Gallatin, Michael W.; Van Der Vieren, Monica
PATENT ASSIGNEE(S): Icos Corporation, USA
SOURCE: PCT Int. Appl., 270 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 12
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000029446	A1	20000525	WO 1999-US27139	19991116 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,				
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,				
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,				
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,				
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,				
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,				
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6251395	B1	20010626	US 1998-193043	19981116 <--
US 2002062008	A1	20020523	US 1999-350259	19990708
US 6620915	B2	20030916		
CA 2350391	AA	20000525	CA 1999-2350391	19991116 <--
EP 1131356	A1	20010912	EP 1999-960388	19991116 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO				

JP 2003534766 T2 20031125 JP 2000-582431 19991116
 AU 775300 B2 20040729 AU 2000-17279 19991116
 PRIORITY APPLN. INFO.: US 1998-193043 A 19981116
 US 1999-350259 A 19990708
 US 1993-173497 A2 19931223
 US 1994-286889 A2 19940805
 US 1994-362652 A2 19941221
 US 1996-605672 A2 19960222
 US 1997-943363 A2 19971003
 WO 1999-US27139 W 19991116

AB Methods to inhibit inflammation and macrophage infiltration following spinal cord injury are disclosed along with methods to modulate **TNF-alpha** release from cells expressing alpha-d (i.e. $\beta 2$ integrin α subunit αd). Anti-alpha-d monoclonal **antibodies** are used to block binding between alpha-d and VCAM-1. Hybridoma secreting the **antibodies** are disclosed, as well as diagnostic methods using the **antibodies**.

IC ICM C07K016-28
 ICS C12N005-12; G01N033-566

CC 15-3 (Immunochemistry)
 Section cross-reference(s): 3

ST human beta2 integrin alphad subunit **antibody**; spinal cord injury inflammation **antibody** alphad

IT Hybridoma
 (226H, 236H, 205C, 205E, 217L, and 236G; monoclonal **antibodies** against human $\beta 2$ integrin subunit αd for inhibiting macrophage infiltration and inflammation)

IT Cell adhesion molecules
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (ICAM-1 (intercellular adhesion mol. 1); monoclonal **antibodies** against human $\beta 2$ integrin subunit αd for inhibiting macrophage infiltration and inflammation)

IT Cell adhesion molecules
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (ICAM-3 (intercellular adhesion mol. 3); monoclonal **antibodies** against human $\beta 2$ integrin subunit αd for inhibiting macrophage infiltration and inflammation)

IT Cell adhesion molecules
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (VCAM-1; monoclonal **antibodies** against human $\beta 2$ integrin subunit αd for inhibiting macrophage infiltration and inflammation)

IT Nervous system
 (central, inflammation; monoclonal **antibodies** against human $\beta 2$ integrin subunit αd for inhibiting macrophage infiltration and inflammation)

IT Nervous system
 (central, injury; monoclonal **antibodies** against human $\beta 2$ integrin subunit αd for inhibiting macrophage infiltration and inflammation)

IT Histiocyte
 (epithelioid; monoclonal **antibodies** against human $\beta 2$ integrin subunit αd for inhibiting macrophage infiltration and inflammation)

IT Spinal cord
 (injury; monoclonal **antibodies** against human $\beta 2$ integrin

subunit α d for inhibiting macrophage infiltration and inflammation)

IT Cell migration
Macrophage
Molecular cloning
Plasmids
Protein sequences
cDNA sequences
(monoclonal **antibodies** against human β 2 integrin subunit α d for inhibiting macrophage infiltration and inflammation)

IT DNA
Polynucleotides
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation)
(monoclonal **antibodies** against human β 2 integrin subunit α d for inhibiting macrophage infiltration and inflammation)

IT Antisense DNA
RNA
Viral DNA
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(monoclonal **antibodies** against human β 2 integrin subunit α d for inhibiting macrophage infiltration and inflammation)

IT **Antibodies**
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(monoclonal; monoclonal **antibodies** against human β 2 integrin subunit α d for inhibiting macrophage infiltration and inflammation)

IT Spinal cord
(myelitis; monoclonal **antibodies** against human β 2 integrin subunit α d for inhibiting macrophage infiltration and inflammation)

IT Spleen
(phagocytes; monoclonal **antibodies** against human β 2 integrin subunit α d for inhibiting macrophage infiltration and inflammation)

IT **Tumor necrosis factors**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(release modulation; monoclonal **antibodies** against human β 2 integrin subunit α d for inhibiting macrophage infiltration and inflammation)

IT Dendritic cell
(screening; monoclonal **antibodies** against human β 2 integrin subunit α d for inhibiting macrophage infiltration and inflammation)

IT Phagocyte
(splenic; monoclonal **antibodies** against human β 2 integrin subunit α d for inhibiting macrophage infiltration and inflammation)

IT Granulomatous disease
Sarcoidosis
(tissue screening; monoclonal **antibodies** against human β 2 integrin subunit α d for inhibiting macrophage infiltration and inflammation)

IT Monkey
Mouse
Rabbit
Rat

- (α d; monoclonal **antibodies** against human β 2 integrin subunit α d for inhibiting macrophage infiltration and inflammation)
- IT Integrins
 RL: BPN (Biosynthetic preparation); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); PROC (Process)
 (β 2, α d subunit; monoclonal **antibodies** against human β 2 integrin subunit α d for inhibiting macrophage infiltration and inflammation)
- IT 168459-66-3, Integrin β 2 (human α d-subunit)
 168459-75-4, Integrin β 2 (mouse α -subunit) 168459-77-6, Integrin β 2 (mouse α -subunit isoform 2) 168459-79-8, Integrin β 2 (rat α -subunit) 172725-99-4 205395-83-1 205395-87-5, Integrin β 2 (rabbit clone 7 α d subunit C-terminal fragment) 205395-89-7, Integrin β 2 (rabbit clone 49 α d subunit fragment)
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (amino acid sequence; monoclonal **antibodies** against human β 2 integrin subunit α d for inhibiting macrophage infiltration and inflammation)
- IT 168459-68-5 168459-74-3 168459-78-7 175256-44-7 205395-82-0, DNA (rabbit clone 2 integrin β 2 α d subunit N-terminal fragment-specifying cDNA plus 5'-flank) 205395-86-4, DNA (rabbit clone 7 integrin β 2 α d subunit C-terminal fragment-specifying cDNA plus 3'-flank) 205395-88-6, DNA (rabbit clone 49 integrin β 2 α d subunit fragment-specifying cDNA) 215647-81-7
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (nucleotide sequence; monoclonal **antibodies** against human β 2 integrin subunit α d for inhibiting macrophage infiltration and inflammation)
- IT 129037-08-7, DNA (human gene G35018) 153272-93-6 153272-94-7 166995-61-5, 1: PN: WO0000219 SEQID: 2 unclaimed DNA 169026-27-1 175256-47-0, PN: DE19841413 SEQID: 24 unclaimed DNA 205395-84-2 215647-83-9 215647-84-0 222346-65-8 271567-27-2, 4: PN: WO0029446 SEQID: 6 unclaimed DNA 271567-28-3, 5: PN: WO0029446 SEQID: 7 unclaimed DNA 271567-29-4, 6: PN: WO0029446 SEQID: 8 unclaimed DNA 271567-30-7, 7: PN: WO0029446 SEQID: 9 unclaimed DNA 271567-31-8, 8: PN: WO0029446 SEQID: 10 unclaimed DNA 271567-32-9, 9: PN: WO0029446 SEQID: 11 unclaimed DNA 271567-33-0 271567-34-1 271567-35-2 271567-36-3 271567-37-4 271567-38-5 271567-39-6 271567-40-9 271567-41-0 271567-42-1 271567-43-2 271567-44-3 271567-45-4 271567-46-5 271567-47-6 271567-48-7 271567-49-8 271567-50-1 271567-51-2 271567-52-3 271567-53-4 271567-54-5 271567-55-6 271567-56-7 271567-57-8 271567-58-9 271567-59-0 271567-60-3 271567-61-4 271567-62-5 271567-63-6 271567-64-7 271567-65-8 271567-66-9 271567-67-0 271567-68-1 271567-69-2 271567-70-5 271567-72-7 271567-73-8 271567-74-9 271567-75-0 271567-76-1 271567-77-2 271567-78-3 271567-79-4 271567-80-7 271567-81-8 271567-82-9 271567-83-0 271567-84-1 271567-85-2 271567-86-3 271567-87-4 271567-88-5 271567-89-6 271567-90-9 271567-91-0 271567-92-1 271567-93-2 271567-94-3 271567-95-4 271567-96-5
 RL: PRP (Properties)
 (unclaimed nucleotide sequence; method for inhibiting macrophage infiltration using monoclonal anti- α -d-**antibodies**)
- IT 119939-20-7, Antigen Mac 1 (human clone λ M23/ λ M14 α -subunit precursor protein moiety reduced) 168459-67-4, Integrin CD 11b (human) 205395-85-3 271595-44-9 271595-45-0

271595-46-1 271595-48-3 271595-55-2 271595-61-0 271595-62-1
271595-63-2

RL: PRP (Properties)

(unclaimed protein sequence; method for inhibiting macrophage
infiltration using monoclonal anti-alpha-d-**antibodies**)

IT 215311-74-3 271254-17-2 271254-18-3 271254-19-4 271254-20-7
271254-21-8 271254-22-9 271567-71-6

RL: PRP (Properties)

(unclaimed sequence; method for inhibiting macrophage infiltration
using monoclonal anti-alpha-d-**antibodies**)

IT **168459-66-3**, Integrin $\beta 2$ (human αd -subunit)

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)

(amino acid sequence; monoclonal **antibodies** against human
 $\beta 2$ integrin subunit αd for inhibiting macrophage
infiltration and inflammation)

RN 168459-66-3 HCAPLUS

CN Integrin $\beta 2$ (human αd -subunit) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **205395-85-3**

RL: PRP (Properties)

(unclaimed protein sequence; method for inhibiting macrophage
infiltration using monoclonal anti-alpha-d-**antibodies**)

RN 205395-85-3 HCAPLUS

CN Integrin $\beta 2$ (human clone A7.Q/A8.Q subunit αd) (9CI) (CA INDEX
NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L61 ANSWER 15 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:325675 HCAPLUS

DOCUMENT NUMBER: 133:118893

TITLE: Cutting edge: inflammatory responses can be triggered
by TREM-1, a novel receptor expressed on neutrophils
and monocytes

AUTHOR(S): Bouchon, Axel; Dietrich, Jes; Colonna, Marco

CORPORATE SOURCE: Basel Institute for Immunology, Basel, CH-4005, Switz.

SOURCE: Journal of Immunology (2000), 164(10),
4991-4995

CODEN: JOIMA3; ISSN: 0022-1767

PUBLISHER: American Association of Immunologists

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The authors have identified new activating receptors of the **Ig**
superfamily expressed on human myeloid cells, called TREM (triggering
receptor expressed on myeloid cells). TREM-1 is selectively expressed on
blood neutrophils and a subset of monocytes and is up-regulated by
bacterial LPS. Engagement of TREM-1 triggers secretion of IL-8, monocyte
chemotactic protein-1, and **TNF-.alpha.** and induces
neutrophil degranulation. Intracellularly, TREM-1 induces Ca^{2+}
mobilization and tyrosine phosphorylation of extracellular signal-related
kinase 1 (ERK1), ERK2 and phospholipase C- γ . To mediate activation,
TREM-1 assoc. with the transmembrane adapter mol. DAP12. Thus, TREM-1
mediates activation of neutrophil and monocytes, and may have a
predominant role in inflammatory responses.

CC 15-10 (Immunochemistry)

Section cross-reference(s): 3

IT 212838-42-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; TREM receptor cDNA sequences of human and role of TREM-1 in neutrophil and monocyte-mediated inflammatory responses)

IT 212838-42-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; TREM receptor cDNA sequences of human and role of TREM-1 in neutrophil and monocyte-mediated inflammatory responses)

RN 212838-42-1 HCAPLUS

CN Receptor TREM-1 (triggering receptor expressed on monocytes-1) (human monocyte) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L61 ANSWER 16 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:15227 HCAPLUS

DOCUMENT NUMBER: 132:77836

TITLE: Improved process for preparing Schiff base adducts of amines with o-hydroxy aldehydes and compositions of matter based thereon

INVENTOR(S): Hay, Bruce Allan; Clark, Michael Thomas

PATENT ASSIGNEE(S): Pfizer Products Inc., USA

SOURCE: PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000000507	A1	20000106	WO 1999-IB993	19990602 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2331388	AA	20000106	CA 1999-2331388	19990602 <--
AU 9938424	A1	20000117	AU 1999-38424	19990602 <--
EP 1087989	A1	20010404	EP 1999-921066	19990602 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO				
BR 9912203	A	20010410	BR 1999-12203	19990602 <--
TR 200003732	T2	20010621	TR 2000-200003732	19990602 <--
JP 2002519356	T2	20020702	JP 2000-557268	19990602
RU 2201936	C2	20030410	RU 2000-133344	19990602
US 2003125528	A1	20030703	US 2002-256482	20020927
PRIORITY APPLN. INFO.:			US 1998-90714P	P 19980626
			US 1998-90714	P 19980626
			WO 1999-IB993	W 19990602
			US 1999-337985	B1 19990622

OTHER SOURCE(S): MARPAT 132:77836

AB An improved process is described for preparing Schiff base condensation adduct final products whose components comprise a protein having beneficial activity in animals, and an aromatic o-hydroxy aldehyde, which comprises bringing together the above-mentioned components in an aqueous environment at a pH of 7.0 or higher to form a reaction mixture, under conditions effective to drive said condensation reaction substantially to completion by removing from about 97.0 % to about 99.9 % by weight, preferably from about 98.0 % to about 99.0 % by weight of the water already present or produced during said condensation reaction, consistent with maintaining the integrity of the condensation reactants and adduct final product, and to assure a rate of conversion to said condensation adduct final product, i.e. , with resulting yield of said condensation adduct final product of equal to or greater than about 98.5 % by weight, preferably equal to or greater than about 99.5 % by weight based on the weight of the reactants. Preferred aromatic o-hydroxy aldehydes comprise o-vanillin; salicylaldehyde; 2,3-dihydroxybenzaldehyde; 2,6-dihydroxybenzaldehyde; 2-hydroxy-3-ethoxybenzaldehyde; or pyridoxal. A very wide range of proteins may be employed. The improved process provides yields over 90 % and substantially quant. conversion of the aldehyde and protein to the condensation adduct.

IC ICM C07K001-107

ICS C07K014-61; A61K047-48

CC 17-6 (Food and Feed Chemistry)

Section cross-reference(s): 18, 24, 27, 63

IT **Immunoglobulins**

RL: FFD (Food or feed use); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)

(G; improved process for preparing Schiff base adducts of peptide and protein amine groups with o-hydroxy aldehydes and compns. based thereon for food and drug use)

IT Cytokines

Enkephalins

Growth promoters, animal

Hemoglobins

Hemopoietins

Immunoglobulins

Interferons

Interleukin 1

Interleukin 10

Interleukin 11

Interleukin 12

Interleukin 2

Interleukin 3

Interleukin 4

Interleukin 5

Interleukin 6

Interleukin 7

Interleukin 8

Interleukin 9

Interleukins

Lymphotoxin

Myoglobins

Proteins, general, biological studies

Stem cell factor

RL: FFD (Food or feed use); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)

(improved process for preparing Schiff base adducts of peptide and protein amine groups with o-hydroxy aldehydes and compns. based thereon for

food and drug use)

IT **Antibodies**

RL: FFD (Food or feed use); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(monoclonal; improved process for preparing Schiff base adducts of peptide and protein amine groups with o-hydroxy aldehydes and compns. based thereon for food and drug use)

IT **Interferons**

Tumor necrosis factors

RL: FFD (Food or feed use); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(α ; improved process for preparing Schiff base adducts of peptide and protein amine groups with o-hydroxy aldehydes and compns. based thereon for food and drug use)

IT 50-57-7, Lypressin 53-73-6, Angiotensin amide 56-59-7, Felypressin 58-82-2, Bradykinin 113-79-1, AVP 342-10-9, Kallidin 4117-65-1, Aspartocin 5534-95-2, Pentagastrin 8068-28-8, Colistimethate 9001-28-9, Blood-coagulation factor IX 9001-63-2, Lysozyme 9002-01-1, Streptokinase 9002-60-2, ACTH, biological studies 9002-61-3, Chorionic gonadotropin 9002-62-4, Prolactin, biological studies 9002-64-6, Parathyroid hormone 9002-67-9, Luteinizing hormone 9002-68-0, FSH 9002-71-5, TSH 9002-72-6, Somatotropin 9004-10-8, Insulin, biological studies 9004-10-8D, Insulin, dealanated, biological studies 9005-49-6, Heparin, biological studies 9007-12-9, Calcitonin 9007-92-5, Glucagon, biological studies 9014-42-0, Thrombopoietin 9034-39-3, Somatoliberin 9034-40-6, LHRH 9034-42-8, β -MSH 9035-54-5, Placental lactogen 9039-53-6, Urokinase 9087-70-1, Aprotinin 11000-17-2, Vasopressin 11096-26-7, Erythropoietin 15958-92-6, 1-8-Bradykinin 16679-58-6, Desmopressin 16870-37-4, Amogastin 16960-16-0, Cosyntropin 17650-98-5, Ceruletide 24305-27-9, Thyrotropin-releasing hormone 26305-03-3 33515-09-2, Gonadorelin 33605-67-3, Cargutocin 34765-96-3, Alsactide 35115-60-7, Teprotide 37025-55-1, Carbetocin 37213-49-3, α -MSH 37228-64-1, β -Glucocerebrosidase 37332-99-3, Avoparcin 37377-93-8, β -LPH 39422-22-5, γ -LPH 51110-01-1, Somatostatin 53714-56-0, Leuprolide 54017-73-1, Murodermin 57773-63-4, Triptorelin 57773-65-6, Deslorelin 58569-55-4, [Met5]enkephalin 58822-25-6, 1-5- β -Neoendorphin (human) 59865-13-3, Cyclosporin 60118-07-2, Endorphin 60173-73-1, Arfalsin 60267-61-0, Ubiquitin 60731-46-6, Elcatonin 61489-71-2, Human menopausal gonadotropin 62304-98-7, Thymalfasin 62683-29-8, Colony stimulating factor 63631-40-3, DADL 64695-06-3, Des-Arg9-[Leu8]-bradykinin 64854-64-4, FK-33824 65154-06-5, PAF 65647-03-2 65807-02-5, Goserelin 67269-08-3 67422-14-4, Proinsulin human 67763-96-6, IGF-1 67763-97-7, IGF-2 69558-55-0, Thymopentin 69671-17-6, α -Neoendorphin 71800-36-7, 1-9-Kallidin 73168-24-8 74135-04-9, Morphiceptin 74913-18-1D, Dynorphin, derivs. 75644-90-5 76712-82-8, Histrelin 76932-56-4, Nafarelin 77752-00-2, β -Neoendorphin 78123-71-4, DAMGO 79804-71-0, Corticorelin 81627-83-0, M-CSF 82030-87-3, Somatrem 83150-76-9, Octreotide 83397-56-2, PL-017 83784-18-3, Lutrelin acetate 85006-82-2, Dynorphin B 88161-22-2, Dynorphin A 88373-73-3 **89383-13-1**, Somidobove 90779-69-4, Atosiban **96353-48-9**, Somagrebove 97048-13-0, Urofollitropin 97825-00-8, [D-Phe7]-bradykinin 99283-10-0, Molgramostim 102583-46-0, Detirelix acetate **102733-72-2**, Sometripor **102744-97-8**, Sometribove 103060-53-3, Daptomycin 103222-11-3, Vapreotide 103429-31-8, CTOP **105857-23-6**, Alteplase 105953-59-1, Dumorelin **106282-98-8**, Somalapor 110551-45-6 110881-59-9 110942-02-4, Aldesleukin 111212-85-2, Ersofermin 113189-02-9, Antihemophilic factor 113427-24-0, Epoetin

alfa 114455-29-7 **119693-74-2**, Somenopor 120993-53-5,
Desirudin 121181-53-1, Filgrastim 122302-71-0, Atriopeptin-21
122384-88-7, Amlintide 122752-15-2, Deltorphan C 122752-16-3,
Deltorphan B 123774-72-1, Sargramostim **126752-39-4**, Somavubove
127785-64-2, Basifungin 127984-74-1, Lanreotide acetate 128270-60-0,
Bivalirudin **129566-95-6**, Somfasepor 135968-09-1, Lenograstim
136105-89-0 137463-76-4, PIXY321 137487-62-8, Alvircept sudotox
138614-30-9, HOE 140 139639-23-9, Tissue plasminogen activator
142298-00-8, Emoctakin **143003-46-7**, Alglucerase 143090-92-0,
Anakinra 148637-05-2, Cilmostim 151126-32-8, Pramlintide
152923-56-3, Daclizumab 154248-96-1, Iroplact **154248-97-2**,
Imiglucerase 157238-32-9, Cetermin 165101-51-9, Becaplermin
166089-33-4, Nagrestipen **171870-23-8**, Lanoteplase

RL: FFD (Food or feed use); RCT (Reactant); THU (Therapeutic use); BIOL
(Biological study); RACT (Reactant or reagent); USES (Uses)

(improved process for preparing Schiff base adducts of peptide and protein
amine groups with o-hydroxy aldehydes and compns. based thereon for
food and drug use)

IT **89383-13-1**, Somidobove **96353-48-9**, Somagrebove
102733-72-2, Sometripor **102744-97-8**, Sometribove
105857-23-6, Alteplase **106282-98-8**, Somalapor
119693-74-2, Somenopor **126752-39-4**, Somavubove
129566-95-6, Somfasepor **143003-46-7**, Alglucerase
154248-97-2, Imiglucerase **171870-23-8**, Lanoteplase

RL: FFD (Food or feed use); RCT (Reactant); THU (Therapeutic use); BIOL
(Biological study); RACT (Reactant or reagent); USES (Uses)

(improved process for preparing Schiff base adducts of peptide and protein
amine groups with o-hydroxy aldehydes and compns. based thereon for
food and drug use)

RN 89383-13-1 HCAPLUS

CN Somatotropin (cattle), 1-[N2-[N-[N-[N-[N-[N-[1-(N-L-methionyl-L-
phenylalanyl)-L-prolyl]-L-leucyl]-L- α -aspartyl]-L- α -aspartyl]-
L- α -aspartyl]-L- α -aspartyl]-L-lysine]- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 96353-48-9 HCAPLUS

CN Somatotropin (cattle reduced), 1-(L-methionyl-L- α -aspartyl-L-
glutamine)- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 102733-72-2 HCAPLUS

CN Somatotropin (swine), N-L-methionyl- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 102744-97-8 HCAPLUS

CN Somatotropin (cattle), 1-L-methionine-127-L-leucine- (9CI) (CA INDEX
NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 105857-23-6 HCAPLUS

CN Plasminogen activator (human tissue-type protein moiety) (9CI) (CA INDEX
NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 106282-98-8 HCAPLUS

CN Somatotropin (swine clone pPGH-1 reduced), N-L-alanyl- (9CI) (CA INDEX
NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 119693-74-2 HCAPLUS
CN Somatotropin (swine clone pPGH-1 reduced), N-L-alanyl-32-de-L-glutamic acid-33-de-L-arginine-34-de-L-alanine-35-de-L-tyrosine-36-de-L-isoleucine-37-de-L-proline-38-de-L-glutamic acid- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 126752-39-4 HCAPLUS
CN Somatotropin (cattle), 127-L-leucine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 129566-95-6 HCAPLUS
CN 8-190-Somatotropin (swine clone pPGH-1) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 143003-46-7 HCAPLUS
CN Ceramidase, glucosyl- (human placenta isoenzyme protein moiety reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 154248-97-2 HCAPLUS
CN Ceramidase, glucosyl- (human placenta isoenzyme protein moiety) 495-L-histidine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 171870-23-8 HCAPLUS
CN (1-5)-(87-527)-Plasminogen activator (human tissue-type protein moiety), N-[N2-(N-glycyl-L-alanyl)-L-arginyl]-117-L-glutamine-245-L-methionine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L61 ANSWER 17 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:625738 HCAPLUS

DOCUMENT NUMBER: 125:324830

TITLE: A mutation in the puff region of VP2 attenuates the myocarditic phenotype of an infectious cDNA of the Woodruff variant of coxsackievirus B3

AUTHOR(S): Knowlton, Kirk U.; Jeon, Eun-Seok; Berkley, Neil; Wessely, Rainer; Huber, Sally

CORPORATE SOURCE: Department Medicine, University California, San Diego, CA, 92103, USA

SOURCE: Journal of Virology (1996), 70(11), 7811-7818

CODEN: JOVIAM; ISSN: 0022-538X

PUBLISHER: American Society for Microbiology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Coxsackievirus B3 (CVB3) infections induce myocarditis in humans and mice. Little is known about the mol. characteristics of CVB3 that activate the cellular immunity responsible for cardiac inflammation. Previous expts. have identified an **antibody** escape mutant (H310A1) of a myocarditic variant of CVB3 (H3) that attenuates the myocarditic potential of the virus in mice in spite of ongoing viral replication in the heart. The authors have cloned full-length infectious cDNA copies of the viral genome of both the wild-type myocarditic H3 variant of CVB3 and the **antibody** escape mutant H310A1. Progeny viruses maintained the myocarditic and attenuated myocarditic potential of the parent viruses, H3

and H310A1. The full sequence of the H3 viral cDNA is reported and compared with those of previously published CVB3 variants. Comparison of the full sequences of H3 and H310A1 viruses identified a single nonconserved mutation (A to G) in the P1 polyprotein region at nucleotide 1442 resulting in an asparagine-to-aspartate mutation in amino acid 165 of VP2. This mutation is in a region that corresponds to the puff region of VP2. Nucleotide 1442 of the H3 and H310A1 cDNA copies of the viral genome was mutated to change amino acid 165 of VP2 to aspartate and asparagine, resp. The presence of asparagine at amino acid 165 of VP2 is associated with the myocarditic phenotype, while an aspartate at the same site reduces the myocarditic potential of the virus. In addition, high-level production of **tumor necrosis factor alpha** by infected BALB/c monocytes is associated with asparagine at amino acid 165 of VP2 as has been previously demonstrated for the H3 virus. These findings identify potentially important differences between the H3 variant of CVB3 and other previously published CVB3 variants. In addition, the data demonstrate that a point mutation in the puff region of VP2 can markedly alter the ability of CVB3 to induce myocarditis in mice and **tumor necrosis factor alpha** secretion from infected BALB/c monocytes.

CC 14-3 (Mammalian Pathological Biochemistry)

Section cross-reference(s): 3, 10

IT 127699-62-1, Peptide VPg (coxsackie virus A9 strain Griggs) 132729-47-6,
Protein 2B (echo virus 11 strain Gregory clone pE11/154 reduced)
174395-22-3 **183147-44-6** 183147-45-7 183147-46-8
183147-47-9 183147-48-0 183147-49-1 183147-50-4 **183186-57-4**
183256-74-8

RL: PRP (Properties)

(amino acid sequence; sequence of coxsackievirus B3 Woodruff variant and identification of mutation in puff region of VP2 that attenuates myocarditic phenotype)

IT **183147-44-6 183186-57-4**

RL: PRP (Properties)

(amino acid sequence; sequence of coxsackievirus B3 Woodruff variant and identification of mutation in puff region of VP2 that attenuates myocarditic phenotype)

RN 183147-44-6 HCAPLUS

CN Polyprotein (human coxsackievirus B3 strain Woodruff variant) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 183186-57-4 HCAPLUS

CN Protein 3A (human coxsackievirus B3 strain Woodruff variant) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L61 ANSWER 18 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:538418 HCAPLUS

DOCUMENT NUMBER: 122:283880

TITLE: Regulation of transcription factor NF-IL6/LAP

INVENTOR(S): Karin, Michael; Trautwein, Christian

PATENT ASSIGNEE(S): Regents of the University of California, USA

SOURCE: PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9503326	A1	19950202	WO 1994-US8194	19940720 <--
W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2167303	AA	19950202	CA 1994-2167303	19940720 <--
AU 9474014	A1	19950220	AU 1994-74014	19940720 <--
AU 688355	B2	19980312		
EP 724594	A1	19960807	EP 1994-923989	19940720 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 09500536	T2	19970121	JP 1994-505294	19940720 <--
JP 2986549	B2	19991206		
JP 2000032991	A2	20000202	JP 1999-162547	19940720 <--
JP 3162683	B2	20010508		
US 5874209	A	19990223	US 1995-436874	19950508 <--
PRIORITY APPLN. INFO.:			US 1993-96177	A 19930720
			JP 1994-505294	A3 19940720
			WO 1994-US8194	W 19940720
AB	A site-specific post-translational modification of NF-IL6/LAP (nuclear factor-interleukin 6/lymphokine activating protein) enhances its ability to activate various target genes, e.g., cytokine genes. Phosphorylation of 105-Ser, within the activation domain of NF-IL6/LAP, alters its transcription efficacy. Polypeptides, polynucleotides, and methods of use for modified transcriptional activators allow regulation of gene expression. Site-specific phosphorylation of NF-IL6/LAP at 105-Ser was demonstrated in HepG2 cells. The effects of substitution mutants (105-Ala)-NF-IL6/LAP and (105-Asp)-NF-IL6/LAP were also demonstrated.			
IC	ICM C07K013-00 ICS C07K015-00; C12N015-12; C12N015-11; C12N015-67; C12N015-00; C12N015-70; A61K039-00; A61K038-00; A61K038-16; G01N033-48; C12Q001-00			
CC	3-4 (Biochemical Genetics) Section cross-reference(s): 6			
IT	Antibodies RL: BSU (Biological study, unclassified); BIOL (Biological study) (to transcription factor NF-IL6/LAP)			
IT	Lymphokines and Cytokines RL: BSU (Biological study, unclassified); BIOL (Biological study) (tumor necrosis factor- α , transcription factor NF-IL6/LAP for regulating expression of gene for)			
IT	162914-28-5 162914-29-6 162914-30-9 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study) (regulation of transcription factor NF-IL6/LAP by phosphorylation or substitution of 105-Ser)			
IT	162914-28-5 162914-29-6 162914-30-9 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study) (regulation of transcription factor NF-IL6/LAP by phosphorylation or substitution of 105-Ser)			
RN	162914-28-5 HCAPLUS			
CN	RNA formation factor NFIL 6 (synthetic) (9CI) (CA INDEX NAME)			

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 162914-29-6 HCAPLUS
CN RNA formation factor NF-IL 6 [105-glutamic acid] (synthetic) (9CI) (CA
INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 162914-30-9 HCAPLUS
CN RNA formation factor NF-IL 6 [105-aspartic acid] (synthetic) (9CI) (CA
INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L61 ANSWER 19 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:154959 HCAPLUS
DOCUMENT NUMBER: 120:154959
TITLE: Activation of oligomerizing receptors by using fused
receptor ligands
INVENTOR(S): Godowski, Paul J.
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: PCT Int. Appl., 102 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9323550	A2	19931125	WO 1993-US4717	19930517 <--
WO 9323550	A3	19940303		
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5316921	A	19940531	US 1992-884811	19920518 <--
US 5328837	A	19940712	US 1992-885971	19920518 <--
JP 07508178	T2	19950914	JP 1993-503819	19930517 <--
US 5580963	A	19961203	US 1994-194088	19940209 <--
US 5684136	A	19971104	US 1995-435501	19950505 <--
US 5763584	A	19980609	US 1995-435764	19950505 <--
US 5770704	A	19980623	US 1997-792078	19970131 <--
JP 2004000236	A2	20040108	JP 2003-172155	20030617
PRIORITY APPLN. INFO.:			US 1992-884811	A 19920518
			US 1992-885971	A 19920518
			US 1992-950572	A2 19920921
			JP 1993-503790	A3 19930517
			WO 1993-US4717	W 19930517
			US 1993-87784	B1 19930713
			US 1994-268880	B3 19940630
			US 1995-423291	B1 19950417

AB The invention concerns a method for activating receptors selected from receptor tyrosine kinases, cytokine receptors and members of the nerve growth factor receptor superfamily. A conjugate comprising the direct fusion of at least two ligands capable of binding to the receptor(s) to be activated is contacted with the receptors, whereby the ligands bind their resp. receptors inducing receptor oligomerization. Human hepatocyte growth factor (huHGF) analogs [Glu-494]huHGF and [Ser-673,Ser-692]huHGF were prepared with recombinant 293 cells. These analogs were not mitogenic. These same analogs were prepared as fusion proteins with amino acids 216-443 of the IgG- γ 1 heavy chain using 293 cells. The mitogenic activity was completely restored.

IC ICM C12N015-62

ICS C07K007-10
 CC 2-10 (Mammalian Hormones)
 ST ligand conjugate receptor oligomerization activation; hepatocyte growth factor analog Ig conjugate
 IT **Immunoglobulins**
 RL: PRP (Properties)
 (A, conjugated receptor ligands linked by constant domain of, for receptor oligomerization/activation)
 IT **Immunoglobulins**
 RL: PRP (Properties)
 (D, conjugated receptor ligands linked by constant domain of, for receptor oligomerization/activation)
 IT **Immunoglobulins**
 RL: PRP (Properties)
 (E, conjugated receptor ligands linked by constant domain of, for receptor oligomerization/activation)
 IT **Immunoglobulins**
 RL: PRP (Properties)
 (G, conjugates, conjugated receptor ligands linked by constant domain of, for receptor oligomerization/activation)
 IT **Immunoglobulins**
 RL: PRP (Properties)
 (G1, conjugated receptor ligands linked by constant domain of, for receptor oligomerization/activation)
 IT **Immunoglobulins**
 RL: PRP (Properties)
 (G2, conjugated receptor ligands linked by constant domain of, for receptor oligomerization/activation)
 IT **Immunoglobulins**
 RL: PRP (Properties)
 (G3, conjugated receptor ligands linked by constant domain of, for receptor oligomerization/activation)
 IT **Immunoglobulins**
 RL: PRP (Properties)
 (G4, conjugated receptor ligands linked by constant domain of, for receptor oligomerization/activation)
 IT **Immunoglobulins**
 RL: PRP (Properties)
 (M, conjugated receptor ligands linked by constant domain of, for receptor oligomerization/activation)
 IT **Lymphokines and Cytokines**
 RL: BIOL (Biological study)
 (tumor necrosis factor- α , conjugates, with second receptor ligand, for oligomerization/activation of receptors)
 IT 9002-62-4D, Prolactin, conjugates with second receptor ligand
 9002-72-6D, Growth hormone, conjugates with second receptor ligand
 9004-10-8D, Insulin, conjugates with second receptor ligand 9035-54-5D, Placental lactogen, conjugates with second receptor ligand 9061-61-4D, Nerve growth factor, conjugates with second receptor ligand 11096-26-7D, Erythropoietin, conjugates with second receptor ligand 12629-01-5D, Somatotropin (human), conjugates with second receptor ligand 61912-98-9D, Insulin-like growth factor, conjugates with second receptor ligand 62031-54-3D, Fibroblast growth factor, conjugates with second receptor ligand 62229-50-9D, Epidermal growth factor, conjugates with second receptor ligand 66419-50-9D, Somatotropin (ox), conjugates with second receptor ligand 81627-83-0D, Colony stimulating factor 1, conjugates with second receptor ligand 83869-56-1D, Granulocyte-macrophage colony-stimulating factor, conjugates with second

receptor ligand 143011-72-7D, Granulocyte colony-stimulating factor,
conjugates with second receptor ligand
RL: BIOL (Biological study)

(for oligomerization/activation of receptors)

IT 66419-50-9D, Somatotropin (ox), conjugates with second receptor
ligand

RL: BIOL (Biological study)

(for oligomerization/activation of receptors)

RN 66419-50-9 HCAPLUS

CN Somatotropin (cattle) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L61 ANSWER 20 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:532910 HCAPLUS

DOCUMENT NUMBER: 119:132910

TITLE: Method for screening variant secretory proteins with
altered properties

INVENTOR(S): Goeddel, David V.; Rice, Glenn C.; Leung, David W. H.

PATENT ASSIGNEE(S): Genentech, Inc., USA

SOURCE: U.S., 25 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5223408	A	19930629	US 1991-728456	19910711 <--
US 5736135	A	19980407	US 1995-389615	19950213 <--
PRIORITY APPLN. INFO.:			US 1991-728456	A3 19910711
			US 1993-8940	B1 19930126
			US 1994-221660	B1 19940401

AB A method for screening secretory protein variants that loss ≥ 1
binding properties and retain ≥ 1 binding properties is given. The
method comprises randomly mutating the DNA for the secretory protein,
fusion of the mutated DNAs with a sequence for a transmembrane domain,
transfecting the chimeric genes in eukaryotic cells for expressing the
chimeric genes on the surface of eukaryotic cells, contacting the
transformed eukaryotic cells with fluorescence-labeled **antibodies**
recognizing different epitopes, and sorting the contacted cells based on a
desired binding pattern, and obtaining the desired secretory protein
variants. Screening of t-PA variants having mutations in Kringle 1 (K1)
domain by expressing the t-PA variants on the surface of TSA-201 cells
using a decay acceleration factor (DAF) fragment as transmembrane domain
was shown. The t-PA variants were sorted by fluorescence activated cell
sorting (FACS) using monoclonal **antibodies** Mab387 and Mab327
labeled with FITC and phycoerythrin, resp.

IC ICM C12P021-02

ICS C12N015-62; C12N015-58; C12N015-53

INCL 435069300

CC 3-1 (Biochemical Genetics)

Section cross-reference(s): 6

IT Phycoerythrins

RL: BIOL (Biological study)

(monoclonal **antibody** labeled with, in screening secretory
protein variant by expressing of protein on surface of eukaryotic cells
using fluorescence activated cell sorting)

IT **Antibodies**
Integrins
Rheumatoid factors
RL: PRP (Properties)
(screening of, expression on surface of eukaryotic cells in)

IT **Immunoglobulins**
RL: BIOL (Biological study)
(variants of, screening of, expression on surface of eukaryotic cells in)

IT **Antibodies**
RL: BIOL (Biological study)
(monoclonal, in screening secretory protein variant by expressing of protein on surface of eukaryotic cells using fluorescence activated cell sorting)

IT **Lymphokines and Cytokines**
RL: BIOL (Biological study)
(**tumor necrosis factor, alpha** and beta, variants of, screening of, expression on surface of eukaryotic cells in)

IT 27072-45-3, FITC
RL: USES (Uses)
(monoclonal **antibody** labeled with, in screening secretory protein variant by expressing of protein on surface of eukaryotic cells using fluorescence activated cell sorting)

IT 51-48-9D, Thyroxine, derivs. 9001-28-9D, Factor IX, variants 9002-01-1D, Streptokinase, variants 9002-04-4D, Thrombin, variants 9002-64-6D, Parathyroid hormone, variants 9002-67-9D, Luteinizing hormone, variants 9002-68-0D, Follicle-stimulating hormone, variants 9002-71-5D, Thyroid stimulating hormone, variants 9002-72-6D, Somatotropin, variants 9003-98-9D, DNase, variants 9007-12-9D, Calcitonin, variants 9007-92-5D, Glucagon, variants 9014-42-0, Thrombopoietin 9039-53-6D, Urokinase, variants 9061-61-4D, Nerve growth factor, variants 9073-60-3D, β -Lactamase, variants 11096-26-7D, Erythropoietin, variants 12629-01-5D, Human growth hormone, variants 31362-50-2D, Bombesin, variants 57285-09-3D, Inhibin, variants **66419-50-9D**, Bovine growth hormone, variants 67763-96-6D, Insulin-like growth factor-I, variants 67763-97-7D, Insulin-like growth factor-II, variants 82707-54-8D, Enkephalinase, variants 87004-01-1D, Prorelaxin, variants 113189-02-9D, Factor VIII, variants 114949-22-3D, Activin, variants 127464-60-2, Vascular endothelial growth factor
RL: PRP (Properties)
(screening of, expression on surface of eukaryotic cells in)

IT **66419-50-9D**, Bovine growth hormone, variants
RL: PRP (Properties)
(screening of, expression on surface of eukaryotic cells in)

RN 66419-50-9 HCAPLUS
CN Somatotropin (cattle) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L61 ANSWER 21 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1993:227525 HCAPLUS
DOCUMENT NUMBER: 118:227525
TITLE: Ecdysteroid dependent regulation of genes in mammalian cells
INVENTOR(S): Godowski, Paul J.
PATENT ASSIGNEE(S): Genentech, Inc., USA
SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9303162	A1	19930218	WO 1992-US6391	19920803 <--
W: JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE				
EP 598011	A1	19940525	EP 1992-917507	19920803 <--
EP 598011	B1	19981111		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, SE				
JP 07501928	T2	19950302	JP 1992-503762	19920803 <--
AT 173295	E	19981115	AT 1992-917507	19920803 <--
ES 2123569	T3	19990116	ES 1992-917507	19920803 <--
PRIORITY APPLN. INFO.:			US 1991-742127	A 19910808
			WO 1992-US6391	W 19920803

AB A method of inducing gene expression in a mammalian cell comprises contacting an ecdysteroid receptor with an ecdysteroid within a mammalian cell containing a gene linked to an ecdysteroid response element. The *Drosophila* ecdysteroid receptor cDNA was cloned and sequenced. Human 293 cells were cotransfected with a vector containing this cDNA and a vector in which the chloramphenicol acetyltransferase (CAT) gene was linked to 4 ecdysone response elements. Cat activity was stimulated in cell exts. incubated with muristerone A, but not with α - or 20-hydroxy-ecdysone or polypodine B, nor with dexamethasone, thyroid hormone, retinoic acid, etc.

IC ICM C12N015-85
 ICS C12N015-00; C12N015-62; C12N015-12; C12N015-38; C12N015-63; C12N015-31

CC 3-1 (Biochemical Genetics)

IT Albumins, biological studies

Antibodies

Enzymes

Integrins

Lymphokines and Cytokines

Proteins, biological studies

Rheumatoid factors

Ribonucleic acids

RL: BIOL (Biological study)
 (gene for, expression in mammalian cells of heterologous, ecdysteroid-ecdysteroid receptor-ecdysteroid response element system for stimulation of)

IT **Lymphokines and Cytokines**
 RL: BIOL (Biological study)
 (tumor necrosis factor- α , gene for, expression in mammalian cells of heterologous, ecdysteroid-ecdysteroid receptor-ecdysteroid response element system for stimulation of)

IT 51-48-9, Thyroxine, biological studies 9001-27-8, Factor VIII 9001-28-9, Factor IX 9001-99-4, RNase 9002-04-4, Thrombin 9002-62-4, Prolactin, biological studies 9002-64-6, Parathyroid hormone 9002-67-9, Luteinizing hormone 9002-68-0, Follicle-stimulating hormone 9002-69-1, Relaxin 9002-71-5, Thyroid-stimulating hormone 9002-72-6, Somatotropin 9003-98-9, DNase 9004-06-2, Elastase 9004-10-8, Insulin, biological studies 9007-12-9, Calcitonin 9007-92-5, Glucagon, biological studies 9014-42-0, Thrombopoietin 9026-93-1, Adenosine

deaminase 9035-54-5, Placental lactogen 9035-58-9, Blood-coagulation factor III 9035-68-1, Proinsulin 9039-53-6, Urokinase 9054-89-1, Superoxide dismutase 9068-38-6, Reverse transcriptase 9073-60-3, β -Lactamase 11096-26-7, Erythropoietin 12629-01-5, Somatotropin (human) 57285-09-3, Inhibin 62031-54-3, Fibroblast growth factor 66419-50-9, Somatotropin (ox) 67763-96-6, Insulin-like growth factor I 67763-97-7, Insulin-like growth factor II 75496-63-8, Enkephalinase 80043-53-4, Gastrin-releasing peptide 80497-65-0, Muellerian-inhibiting hormone 81627-83-0, Macrophage colony-stimulating factor 82030-87-3 83869-56-1, Granulocyte macrophage colony-stimulating factor 87004-01-1, Prorelaxin 107666-54-6 114949-22-3, Activin 127464-60-2, Vascular endothelial growth factor 139639-23-9, Tissue plasminogen activator 143011-72-7, Granulocyte colony-stimulating factor

RL: BIOL (Biological study)

(gene for, expression in mammalian cells of heterologous, ecdysteroid-ecdysteroid receptor-ecdysteroid response element system for stimulation of)

IT 66419-50-9, Somatotropin (ox)

RL: USES (Uses)

(gene for, expression in mammalian cells of heterologous, ecdysteroid-ecdysteroid receptor-ecdysteroid response element system for stimulation of)

RN 66419-50-9 HCAPLUS

CN Somatotropin (cattle) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L61 ANSWER 22 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:118249 HCAPLUS

DOCUMENT NUMBER: 118:118249

TITLE: Enrichment method for variant proteins with altered binding properties

INVENTOR(S): Garrard, Lisa J.; Henner, Dennis J.; Bass, Steven; Greene, Roland; Lowman, Henry B.; Wells, James A.; Matthews, David J.

PATENT ASSIGNEE(S): Genentech, Inc., USA

SOURCE: PCT Int. Appl., 101 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9209690	A2	19920611	WO 1991-US9133	19911203 <--
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
CA 2095633	AA	19920604	CA 1991-2095633	19911203 <--
CA 2095633	C	20030204		
EP 564531	A1	19931013	EP 1992-902109	19911203 <--
EP 564531	B1	19980325		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				
JP 07503600	T2	19950420	JP 1992-502710	19911203 <--
JP 3267293	B2	20020318		
AT 164395	E	19980415	AT 1992-902109	19911203 <--
ES 2113940	T3	19980516	ES 1992-902109	19911203 <--
JP 2002136295	A2	20020514	JP 2001-256932	19911203

US 5750373	A	19980512	US 1993-50058	19930430 <--
US 5780279	A	19980714	US 1995-418928	19950405 <--
US 5846765	A	19981208	US 1995-441871	19950516 <--
US 6040136	A	20000321	US 1997-923854	19970903 <--
JP 2002119294	A2	20020423	JP 2001-256931	20010827
JP 3681666	B2	20050810		
JP 2004121261	A2	20040422	JP 2003-403062	20031202
JP 2005065705	A2	20050317	JP 2004-327565	20041111

PRIORITY APPLN. INFO.:

US 1990-621667	A	19901203
US 1991-683400	A	19910410
US 1991-715300	A	19910614
US 1991-743614	A	19910808
JP 1992-502710	A3	19911203
JP 2001-256931	A3	19911203
JP 2001-256932	A3	19911203
WO 1991-US9133	W	19911203
US 1992-864452	B1	19920419
US 1993-50058	A2	19930430
US 1993-161692	A1	19931203
US 1995-418928	A3	19950405
US 1995-463587	A3	19950605

AB A method for selecting variants of proteins such as growth hormone and **antibody** fragment with altered binding properties for their resp. receptor mols. is provided. The method comprises fusing a gene encoding a protein of interest to at least a portion of the gene for a phage coat protein, e.g. for the C-terminal domain of the gene III coat protein of M13 under control of a transcription-regulating element. The vector is mutated at ≥ 1 position within the 1st gene (e.g. by oligonucleotide-directed mutagenesis), and host cells are transformed with the mutant vector and a helper phage having the coat protein gene. Recombinant phagemid particles are formed containing at least part of the mutant expression vector and capable of transforming the host; conditions are adjusted so that most phagemid particles do not display >1 copy of the fusion protein on the particle surface. The phagemid particles are screened for binding to the target mol. These steps may be repeated. Phagemids presenting human growth hormone (hGH)-gene III protein fusion proteins prepared as above were fractionated chromatog. on immobilized hGH-binding protein; a single cycle of binding and elution gave >5000 -fold enrichment.

IC C12N015-00; C12N015-18; C07K013-00; C12P021-00

CC 3-1 (Biochemical Genetics)

Section cross-reference(s): 2, 15

IT Plasmid and Episome

(pDH188, chimeric gene for **antibody** 4D5 Fab fragment and phage M13 coat protein on, mutation and phagemid preparation from)

IT **Antibodies****Immunoglobulins**

RL: BIOL (Biological study)

(selection for, with altered receptor-binding properties, gene fusion with phage coat protein gene and phagemid construction in)

IT **Lymphokines and Cytokines**

RL: BIOL (Biological study)

(**tumor necrosis factor**- α , amino acid-substituted variants of, selection for, with altered receptor-binding properties, gene fusion with phage coat protein gene and phagemid construction in)

IT 9001-27-8D, Blood-coagulation factor VIII, variants 9001-28-9D, Blood-coagulation factor IX, variants 9002-01-1D, Streptokinase, variants 9002-04-4D, Thrombin, variants 9002-64-6D, Parathyroid

hormone, variants 9002-67-9D, LH, variants 9002-68-0D, FSH, variants 9002-69-1D, Relaxin, variants 9002-71-5D, TSH, variants 9002-72-6D, Somatotropin, variants 9003-98-9D, DNase, variants 9004-10-8D, Insulin, variants 9007-12-9D, Calcitonin, variants 9007-92-5D, Glucagon, variants 9014-42-0D, Thrombopoietin, variants 9035-58-9D, Blood-coagulation factor III, amino acid substituted variants 9035-68-1D, Proinsulin, variants 9039-53-6D, Urokinase, variants 9054-89-1D, Superoxide dismutase, variants 9073-60-3D, β -Lactamase, variants 11096-26-7D, Erythropoietin, variants 12629-01-5D, Human growth hormone, variants 57285-09-3D, Inhibin, variants 66419-50-9D, Bovine growth hormone, variants 67763-96-6D, Insulin-like growth factor I, variants 67763-97-7D, Insulin-like growth factor II, variants 80043-53-4D, Gastrin-releasing peptide, variants 80497-65-0D, Muellierian-inhibiting hormone, variants 81627-83-0D, Macrophage colony-stimulating factor, variants 83869-56-1D, Granulocyte-macrophage colony-stimulating factor, variants 87004-01-1D, Prorelaxin, variants 114949-22-3D, Activin, variants 143011-72-7D, Granulocyte colony-stimulating factor, variants

RL: USES (Uses)

(selection for, with altered receptor-binding properties, gene fusion with phage coat protein gene and phagemid construction in)

IT 66419-50-9D, Bovine growth hormone, variants

RL: USES (Uses)

(selection for, with altered receptor-binding properties, gene fusion with phage coat protein gene and phagemid construction in)

RN 66419-50-9 HCAPLUS

CN Somatotropin (cattle) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L61 ANSWER 23 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:37470 HCAPLUS

DOCUMENT NUMBER: 118:37470

TITLE: A method for the diagnosis and treatment of glutamic acid decarboxylase autoantigen-associated diseases

INVENTOR(S): Harrison, Leonard; Honeyman, Margo; Cram, David; De Aizpurua, Henry

PATENT ASSIGNEE(S): Amrad Corp. Ltd., Australia

SOURCE: PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9214485	A1	19920903	WO 1992-AU63	19920221 <--
W: AU, CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
CA 2104225	AA	19920823	CA 1992-2104225	19920221 <--
CA 2104225	C	20010717		
AU 9212748	A1	19920915	AU 1992-12748	19920221 <--
AU 659133	B2	19950511		
EP 572478	A1	19931208	EP 1992-905170	19920221 <--
EP 572478	B1	20050511		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				
JP 06505385	T2	19940623	JP 1992-5047	19920221 <--
JP 3027190	B2	20000327		

AT 295413	E	20050515	AT 1992-905170	19920221
US 5837812	A	19981117	US 1994-308952	19940920 <--
US 6211352	B1	20010403	US 1998-124141	19980729 <--

PRIORITY APPLN. INFO.:

		AU 1991-4773	A	19910222
		AU 1991-8620	A	19910927
		US 1992-839805	B1	19920221
		WO 1992-AU63	A	19920221
		US 1994-308952	A1	19940920

AB Nucleic acids encoding isoforms of glutamic acid decarboxylase (I), synthetic polypeptides containing all or parts of I, and use of the polypeptides in diagnostic tests for insulin dependent diabetes mellitus (IDDM) and other diseases in which I is an autoantigen are disclosed as are methods of treating such diseases. CDNA for I from human brain and pancreatic islet and from mouse brain were isolated, cloned, and sequenced. Recombinant I polypeptides were used in ELISAs to detect **antibodies** to I in blood serum samples.

IC ICM A61K037-56

ICS C07K007-10; C07K013-00; C12N009-88; C12N015-60; G01N033-573

CC 15-1 (Immunochemistry)

Section cross-reference(s): 1, 3, 7

ST glutamic acid decarboxylase **antibody** autoimmune disease; cDNA glutamic acid decarboxylase sequence; diabetes mellitus immunoassay; brain glutamic acid decarboxylase sequence; pancreas islet glutamic acid decarboxylase sequence

IT Immunoassay
(**antibodies** to glutamic acid decarboxylase detection by)

IT Blood analysis
(**antibodies** to glutamic acid decarboxylase detection in, by immunoassay)

IT **Antibodies**
RL: PROC (Process)
(to glutamic acid decarboxylase, detection of, by immunoassay)

IT **Antibodies**
RL: PROC (Process)
(auto-, to glutamic acid decarboxylase, detection of, by immunoassay)

IT Immunoassay
(enzyme-linked immunosorbent assay, **antibodies** to glutamic acid decarboxylase detection by)

IT Diabetes mellitus
(insulin-dependent, diagnosis of, **antibodies** to glutamic acid decarboxylase detection by immunoassay in)

IT Muscle, disease
(stiff-man syndrome, diagnosis of, **antibodies** to glutamic acid decarboxylase detection by immunoassay in)

IT **Lymphokines and Cytokines**
RL: BIOL (Biological study)
(**tumor necrosis factor- α** ,
in reduction of autoantibodies and autoreactive T-cells to glutamic acid decarboxylase using glutamic acid decarboxylase isoform)

IT 145187-64-0 145187-66-2 145187-68-4 145187-70-8
145187-72-0
RL: USES (Uses)
(amino acid sequence of and use of, in ELISA for **antibodies**)

IT 145187-57-1 145187-60-6 145187-62-8
RL: PRP (Properties)
(amino acid sequence of, complete)

IT 145187-64-0 145187-70-8
RL: USES (Uses)
(amino acid sequence of and use of, in ELISA for **antibodies**)

RN 145187-64-0 HCAPLUS
CN 1-203-Decarboxylase, glutamate (mouse brain 67-kilodalton isoenzyme reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 145187-70-8 HCAPLUS
CN 1-250-Decarboxylase, glutamate (human brain 67-kilodalton isoenzyme reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 145187-57-1 145187-60-6 145187-62-8
RL: PRP (Properties)
(amino acid sequence of, complete)

RN 145187-57-1 HCAPLUS
CN Decarboxylase, glutamate (human pancreas 67-kilodalton isoenzyme reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 145187-60-6 HCAPLUS
CN Decarboxylase, glutamate (human brain 67-kilodalton isoenzyme reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 145187-62-8 HCAPLUS
CN Decarboxylase, glutamate (mouse brain 67-kilodalton isoenzyme reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

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L45      325415 SEA FILE=REGISTRY ABB=ON  PLU=ON  LFA/SQSP
L46      2587 SEA FILE=REGISTRY ABB=ON  PLU=ON  LNRRA/SQSP
L47      214765 SEA FILE=REGISTRY ABB=ON  PLU=ON  L45 AND SQL>300
L48      110650 SEA FILE=REGISTRY ABB=ON  PLU=ON  L45 NOT L47
L49      25733 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L47
L50      11625 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L48
L51      33046 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L49 OR L50
L53      56920 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (TNF OR TUMO? (3A) NECROS? (3A) FA
          CT?) (3A) (ALPHA OR A)
L69      454 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L51 AND L46
L70      24 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L69 AND L53
L72      8 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L70 AND PY<2002

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=> d l72 ibib abs hitseq 1-8

L72 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:836393 HCAPLUS

DOCUMENT NUMBER: 139:336932

TITLE: Human tumor necrosis factor- γ β , receptor
 DR3 and TR6, antagonists and antibodies for diagnosis,
 prognosis and treatment of inflammatory bowel diseases

INVENTOR(S): Yu, Guo-liang; Ni, Jian; Rosen, Craig A.; Zhang, Jun;
 Wei, Ping

PATENT ASSIGNEE(S): Human Genome Sciences, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 173 pp., Cont.-in-part of U.S.
 Ser. No. 226,294.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 11

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003198640	A1	20031023	US 2002-310793	20021206
WO 9614328	A1	19960517	WO 1994-US12880	19941107 <--
W: AU, CA, CN, JP, KR, NZ, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
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US 2002090683	A1	20020711	US 1999-246129	19990208
US 6824767	B2	20041130		
US 2002150534	A1	20021017	US 2001-899059	20010706
US 2003129189	A1	20030710	US 2002-226294	20020823
PRIORITY APPLN. INFO.:			WO 1994-US12880	A2 19941107
			US 1995-461246	B2 19950605
			US 1998-5020	B2 19980109
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			US 1999-132227P	P 19990503
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US 2001-899059 A2 20010706
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AB The present invention encompasses methods for detection, diagnosis, prevention, treatment, and/or amelioration of inflammatory bowel diseases and disorders using TNF- γ and its receptors DR3 and TR6. In particular the invention encompasses methods of using TNF- γ , DR3 and TR6 polypeptides, as well as antibodies, and antagonists thereto, in the diagnosis, prognosis and treatment of ulcerative colitis and/or Crohn's disease. Methods of screening for antagonists of the TNF- γ polypeptide, together with therapeutic uses of such antagonists are also disclosed.

IT 616526-20-6 616526-26-2

RL: PRP (Properties)

(unclaimed protein sequence; human tumor necrosis factor- γ , receptor DR3 and TR6, antagonists and antibodies for diagnosis, prognosis and treatment of inflammatory bowel diseases)

RN 616526-20-6 HCAPLUS

CN 13: PN: US20030198640 SEQID: 10 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 MSTESMIRDV ELAEEALPKK TGGPQGSRR C LFLSLFSFLI VAGATTLFCL
51 LHFGVIGPQR EEFPRDLSLI SPLAQAVRSS SRTPSDKPVA HVVANPQAE G
101 QLQWLNRRAN ALLANGVELR DNQLVVPSEG LYLIYSQVLF KGQGC PSTHV
151 LLTHTISRIA VSYQTKVNLL SAIKSPCQRE TPEGAEAKPW YEPIYLG GVF
201 QLEKGDRLSA EINRPDYLDF AESGQVYFGI IAL

RN 616526-26-2 HCAPLUS

CN 19: PN: US20030198640 SEQID: 16 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 MIETYNQTSP RSAATGLPIS MKIFMYLLTV FLITQMIGSA LFAVYLHRR L
51 DKIEDERNLH EDFVFMKTIQ RCNTGERSLS LLNCEEIKSQ FEGFVKDIM L
101 NKEETKKENS FEMQKGDQNP QIAAHVISEA SSKTTSVLQW AEKGYTMSN
151 NLVTLENGKQ LTVKRQGLYY IYAQVTFCSN REASSQAPFI ASLCLKSPGR
201 FERILLRAAN THSSAKPCGQ QSIHLGGVFE LQPGASVFN VTDPSQVSHG
251 TGFTSFGLLK L

L72 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:658583 HCAPLUS

DOCUMENT NUMBER: 137:212014

TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues

INVENTOR(S): Eaton, Dan L.; Filvaroff, Ellen; Gerritsen, Mary E.; Goddard, Audrey; Godowski, Paul J.; Grimaldi, J. Christopher; Gurney, Austin L.; Watanabe, Colin K.; Wood, William I.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 400 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 142
 PATENT INFORMATION:

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CA 2449602	AA	20021219	CA 2002-2449602	20020403
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EP 1402260	A2	20040331	EP 2002-731246	20020403
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AB The present invention is directed to novel polypeptides and to nucleic acid mols. encoding those polypeptides. Thus, 84 cDNA clones encoding secreted or transmembrane proteins in human tissues were identified by extracellular domain homol. screening, amylase screening, and/or signal algorithm anal. Biol. activities exhibited by certain of the proteins include, induction of c-fos in pericytes, stimulated release of proteoglycans from cartilage, modulated glucose or free fatty acid uptake

in skeletal muscle, and stimulated **TNF- α** release in human blood. Differential tissue expression in tumor vs. normal tissues is also demonstrated. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

IT 454487-82-2P 454488-04-1P 454488-26-7P

454488-44-9P 454488-70-1P 454488-80-3P

454489-14-6P 454489-42-0P

RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; secreted and transmembrane polypeptides and nucleic acids encoding them from human tissues)

RN 454487-82-2 HCAPLUS

CN Protein PRO180 (human clone DNA26843-1389) (9CI) (CA INDEX NAME)

SEQ 1 MWWFQQLSLF LPSALVIWTS AAFIFS YITA VTLHHIDPAL PYISDTGTVA
51 PEKCLFGAML NIAAVLCIAT IYVRYKQVHA LSPEENVIIK LNKAGLVLGI
101 LSCLGLSIVA NFQKTTLFAA HVSGAVLTFG MGSLYMFVQT ILSYQMOPKI
151 HGKQVFWIRL LLVIWCGVSA LSMLTCSSVL HSGNFGTDLE QKLHWNPEDK
201 GYVLHMITTA AEWSMSFSFF GFFLT YIRDF QKISLRVEAN LHGLTLYDTA
251 PCPINNERTR LLSRDI

RN 454488-04-1 HCAPLUS

CN Protein PRO937 (human clone DNA56436-1448 precursor) (9CI) (CA INDEX NAME)

SEQ 1 MARFGLPALL CTLAVLSAAL LAELKSKSC SEVRRLYVSK GFNKNDAPLH
51 EINGDHLKIC PQGSTCCSQE MEEKYSLQSK DDFKSVVSEQ CNHLQAVFAS
101 RYKKFDEFFK ELLENAEKSL NDMFVKTYGH LYMQNSELFK DLFVELKRYY
151 VVGNVNLEEM LNDFWARLLE RMFRLVNSQY HFTDEYLECV SKYTEQLKPF
201 GDVPRKCLKQ VTRAFVAART FAQGLAVAGD VSKVSVVNP TAQCTHALLK
251 MIYCSHCRGL VTVKPCYNYC SNIMRGCLAN QGDLD FEWNN FIDAMLMVAE
301 RLEGPFNIES VMDPIDVKIS DAIMNQDNS VQVSQKVFQG CGPPKPLPAG
351 RISRSISESA FSARFRPHHP EERPTTAAGT SLDRLVTDVK EKLRQAKKFW
401 SSLPSNVCND ERMAAGNGNE DDCWNGKGKS RYLFAVTGNG LANQGNNPEV
451 QVDTSKPDIL ILRQIMALRV MTSKMKNAYN GNDVDFFDIS DESSGEGSGS
501 GCEYQQCPSE FDYNATDHAG KSANEKADSA GVRPGAQAYL LTVFCILFLV
551 MQREWR

RN 454488-26-7 HCAPLUS

CN Protein PRO1138 (human clone DNA58850-1495 precursor) (9CI) (CA INDEX NAME)

SEQ 1 MAGSPTCLTL IYILWQLTGS AASGPVKELV GSVGGAVTFP LKSKVKQVDS
51 IVWTFNTTPL VTIQPEGGTI IVTQNRNRER VDFPDGGYSL KLSKLKKND
101 GIYYVGIYSS SLQQPSTQEY VLHVYEHLSK PKVTMGLQSN KNGTCVTNLT
151 CCMHGEEDV IYTWKALGQA ANESHNGSIL PISWRWGESD MTFICVARNP
201 VSRNFSSPIL ARKLCEGAAD DPDSSMVLLC LLLVPLLLSL FVLGLFLWFL

251 KRERQEEYIE EKKRVDICRE TPNICPHSGE NTEYDTIPHT NRTILKEDPA
301 NTVYSTVEIP KKMENPHSLL TMPDTPRLFA YENVI

RN 454488-44-9 HCAPLUS

CN Protein PRO3566 (human clone DNA59844-2542 precursor) (9CI) (CA INDEX NAME)

SEQ 1 MQGRVAGSCA PLGLLLVCLH LPGLFARSIG VVEEKVSQNF GTNLPQLGQP
51 SSTGPSNSEH PQPALDPRSN DLARVPLKLS VPPSDGFPPA GGS AVQRWPP
101 SWGLPAMDSW PPEDPWQMMMA AAAEDRLGEA LPEELSYLSS AAALAPGSGP
151 LPGESSPDAT GLSPEASLLH QDSESRRLPR SNSLGAGGKI LSQRPPWSLI
201 HRVLPDHPWG TLNPSVSWGG GGPGTGWGTR PMPHPEGIWG INNQPPGTSW
251 GNINRYPGGS WGNINRYPGG SWGNINRYPG GSWGNIHLYP GINNPFPPGV
301 LRPPGSSWNI PAGFPNPPSP RLQWG

RN 454488-70-1 HCAPLUS

CN Protein PRO1268 (human clone DNA66519-1535) (9CI) (CA INDEX NAME)

SEQ 1 MGRVSGLVPS RFLTLLAHLV VVITLFWSRD SNIQACLPLT FTPEEYDKQD
51 IQLVAALSVT LGLFAVELAG FLSGVSMFNS TQSLISIGAH CSASVALSFF
101 IFERWECTTY WYIFVFCAL PAVTEMALFV TVFGLKKKPF

RN 454488-80-3 HCAPLUS

CN Protein PRO1342 (human clone DNA66674-1599 precursor) (9CI) (CA INDEX NAME)

SEQ 1 MKMQKGNVLL MFGLLLHLEA ATNSNETSTS ANTGSSVISS GASTATNSGS
51 SVTSSGVSTA TISGSSVTSN GVSIVTNSEF HTTSSGISTA TNSEFSTASS
101 GISIATNSES STTSSGASTA TNSESSTPSS GASTVTNSGS SVTSSGASTA
151 TNSESSTVSS RASTATNSES STLSSGASTA TNSDSSTTSS GASTATNSES
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251 GAGTATNSES STTSSGASTA TNSDSSTVSS GASTATNSES STTSSGASTA
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501 PGGSLVPWEI FLITLVSVVA AVGLFAGLFF CVRNSLSLRN TFNTAVYHPH
551 GLNHGGLGPGP GGNHGAPHRP RWSPNFWRR PVSSIAMEMS GRNSGP

RN 454489-14-6 HCAPLUS

CN Protein PRO1925 (human clone DNA82302-2529 precursor) (9CI) (CA INDEX NAME)

SEQ 1 MSARGRWEWG GRRACRGS LG LARAQGAERV TSSEQRPAMA SLGLLLLLLLL
51 TALPPLWSSS LPGLDTAESK ATIADLILSA LERATVFLEQ RLPEINLDGM
101 VGVRLVEEQ L KSVREKWAQE PLLQPLSLRV GMLGEKLEAA IQRSLHYLKL
151 SDPKYLREFQ LTLQPGFWKL PHAWIHTDAS LVYPTFGPQD SFSEERSDVC

201 LVQLLGTTGTD SSEPCGLSDL CRSLMTKPGC SGYCLSHQLL FFLWARMRGC
 251 TQGPLQQSQD YINLFCANMM DLNRRAEAIG YAYPTRDIFM ENIMFCGMGG
 301 FSDFYKLRWL EAILSWQKQQ ECGFGEPAE DEELSKAIQY QQHFSRRVKR
 351 REKQFPDSRS VAQAGVQWRN LGSLQPLPPG FKQFSLILP SSWDYRSVPP
 401 YLANFYIFLV ETGFHHVAHA GLELLISRDP PTSGSQSVGL

RN 454489-42-0 HCAPLUS

CN Protein PRO20040 (human clone DNA164625-2890 precursor) (9CI) (CA INDEX NAME)

SEQ 1 MPVPWFLLSL ALGRSPVVL LERLVGPQDA THCSPGLSCR LWDSILCLP
 51 GDIVPAPGPV LAPTHLQTEL VLRCQKETDC DLCLRVAVHL AVHGHWEEPE
 101 DEEKFGGAAD SGVEEPRNAS LQAQVLSFQ AYPTARCVLL EVQVPAALVQ
 151 FGQSVGSVY DCFEALGSE VRIWSYTQPR YEKELNHTQQ LPALPWLNV
 201 ADGDNVHLVL NVSEEQHFGL SLYWNQVQGP PKPRWHKNLT GPQIITLNHT
 251 DLVPCLCIQV WPLEPDSVRT NICPFREDPR AHQNLWQAAR LRLLTLQSWL
 301 LDAPCSLPAE AALCWRAPGG DPCQPLVPPL SWENVTVDKV LEFPLLKGHP
 351 NLCVQVNSSE KLQLQECLWA DSLGPLKDDV LLETRGPQD NRSLCALEPS
 401 GCTSLPSKAS TRAARLGEYL LQDLQSGQCL QLWDDDLGAL WACPMDKYIH
 451 KRWALVWLAC LLFAAALSLI LLLKKDHAKG WLRLKQDVR SGAAARGRAA
 501 LLLYSADDSG FERLVGALAS ALCQLPLRVA VDLWSRRELS AQGPVAFWA
 551 QRRQTLQEGG VVLLLFSPGA VALCSEWLQD GVSQGAHGP HDAFRASLSC
 601 VLPDFLQGRA PGSYVGACFD RLLHPDAVPA LFRTVPVFTL PSQLPDFLGA
 651 LQQPRAPRSR RLQERAEQVS RALQPALDSY FHPPGTPAPG RGVGPGAGPG
 701 AGDGT

L72 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:693506 HCAPLUS

DOCUMENT NUMBER: 135:268240

TITLE: Secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues

INVENTOR(S): Baker, Kevin P.; Chen, Jian; Desnoyers, Luc; Goddard, Audrey; Godowski, Paul J.; Gurney, Austin L.; Pan, James; Smith, Victoria; Watanabe, Colin K.; Wood, William I.; Zhang, Zemin

PATENT ASSIGNEE(S): Genentech, Inc., USA

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AB The present invention is directed to novel polypeptides and to nucleic acid mols. encoding those polypeptides. Thus, 305 cDNAs encoding human secreted or transmembrane proteins were identified by extracellular domain homol. screening, amylase screening, and signal algorithm anal. These transcripts for these proteins are overexpressed in various cancerous tissues, including adrenal, lung, colon, breast, prostate, rectal, cervical, and liver tumors. Certain of the proteins stimulate release of **tumor necrosis factor-.alpha.** from human blood, and also stimulate proliferation or differentiation of chondrocytes. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

IT 160575-51-9 203876-08-8 221079-13-6

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RL: ANT (Analyte); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); USES (Uses)

(amino acid sequence; secreted and transmembrane polypeptides and human nucleic acids encoding them that are overexpressed in cancerous tissues)

RN 160575-51-9 HCAPLUS

CN Tyrosine kinase receptor (human monocyte-expressed gene c-mer) (9CI) (CA INDEX NAME)

SEQ 1 MGPAPLPLLL GLFLPALWRR AITEAREEAK PYPLFPGPFP GSLQTDHTPL
 51 LSLPHASGYQ PALMFSPTQP GRPHTGNVAI PQVTSVESKP LPPLAFKHTV
 101 GHIILSEHKG VKFNCSINVP NIYQDTTISW WKDGKELLGG HHRITQFYPD
 151 DEVTALIASF SITSVQRSDN GSYICKMKIN NEEIVSDPIY IEVQGLPHFT
 201 KQPESMNVTNR NTAFNLTCQA VGPPEPVNIF WVQNSSRVNE QPEKSPGVLT
 251 VPGLTEMAVF SCEAHNDKGL TVSQGVQINI KAIPSPPTTEV SIRSNTAHSI
 301 LISWVPGFDG YSPFRNCISQ VKEADPLGNG SVMIFNTSAL PHLYQIKQLQ
 351 ALANYSIGVS CMNEIGWSAV SPWILASTE GAPSVAPLNV TVFLNESSDN
 401 VDIRWMKPPT KQQDGELVGY RISHVWQSAG ISKELLEEVG QNGSRARISV
 451 QVHNATCTVR IAAVTRGGVG PFSDPVKIFI PAHGWVDYAP SSTPAPGNAD
 501 PVLIIFGFCFC GFILIGLILY ISLAIRKRVQ ETKFGNAFTE EDSELVVNYI
 551 AKKSFCRRRI ELTLHSLGVS EELQNKLEDV VIDRNLLILG KILGEGEFGS
 601 VMEGNLKQED GTSCLKVAVKT MKLDNSSHRE IEEFLSEAAC MKDFSHPNVI
 651 RLLGVCIEMS SQGLPKPMVI LPFMKYGDLH TYLLYSRLET GPKHIPLQTL
 701 LKFMVDIALG MEYLSNRNFL HRDLAARNCM LRDDMTVCVA DFGLSKKIYS
 751 GDYYRQGRIA KMPVKWIAIE SLADRVYTSK SDVWAFGVTM WEIRTRGMTP
 801 YPGVQNHEMY DYLLHGHRK QPEDCLDELY EIMYSCWRD PLDRPTFSVL
 851 RLQLEKLLES LPDVRNQADV IYVNTQLLES SEGLAQGP TL APLDLNIDPD
 901 SIIASCTPRA AISVVTAEVH DSKPHEGRYI LGGGSEEWED LTSAPSAAVT
 951 AEKNSVLPGE RLVRNGVSW SSSMLPLGSS LPDELLFADD SSEGSEVLM

RN 203876-08-8 HCAPLUS

CN Protein (human gene Coch-5B2 precursor reduced) (9CI) (CA INDEX NAME)

SEQ 1 MSAAWIPALG LGVCLLLLPG PAGSEGA API AITCFTRGLD IRKEKADVLC
 51 PGGCPLEEFV VYGNIVYASV SSICGAAVHR GVISNSGGPV RVYSLPGREN
 101 YSSVDANGIQ SQMLSRWSAS FTVTKGKSST QEATGQAVST AHPPTGKRLK
 151 KTPEKKTGNK DCKADIAFLI DGFSNIGQRR FNLQKNFVGK VALMLGIGTE
 201 GPHVGLVQAS EHPKIEFYLK NFTAQKDVLF AIKEVGFRGG NSNTGKALKH
 251 TAQKFFTVDA GVRKGIPKVV VVFIDGWPSD DIEEAGIVAR EFGVNVFIVS
 301 VAKPIPEELG MVQDVTFVDK AVCRNNGFFS YHMPNWFETT KYVKPLVQKL
 351 CTHEQMMCSK TCYNSVNIAF LIDGSSSVGD SNFRMLLEFV SNIKTPEIS
 401 DIGAKIAAVQ FTYDQRTFEFS FTDYSTKENV LAVIRNIRYM SGGTATGDAI
 451 SFTVRNVFGP IRESPNKNFL VIVTDGQSYD DVQGPAAAAH DAGITIFSVG
 501 VAWAPLDDLK DMSKPKESH AFFTREFTGL EPIVSDVIRG ICRDFLESQQ

RN 221079-13-6 HCAPLUS
 CN Dipeptidase, acetylasparylglutamate (human clone P1-683/P1-1694 reduced)
 (9CI) (CA INDEX NAME)

SEQ 1 MWNLLHETDS AVATARRPRW LCAGALVLAG GFFLLGFLFG WFIKSSNEAT
 51 NITPKHNMKA FLDELKAENI KKFLHNFTQI PHLAGTEQNF QLAKQIQSQW
 101 KEFGLDSELV AHYDVLLSYP NKTHPNYISI INEDGNEIFN TSLFEPPPPG
 151 YENVSDIVPP FSAFSPQGMF EGDLVYVNYA RTEDFFKLER DMKINCSGKI
 201 VIARYGKVFR GNKVKNQAQLA GAKGVILYSD PADYFAPGVK SYPDGWNLPG
 251 GGVQRGNILN LNGAGDPLTP GYPANEYAYR RGIAEAVGLP SIPVHPIGYY
 301 DAQKLEKMG GSAPPDSSWR GSLKVPYNVG PGFTGNFSTQ KVKMHIHSTN
 351 EVTRIYNVIG TLRGAVEPDR YVILGGHRDS WVFGGIDPQS GAAVVHEIVR
 401 SFGTLKKEGW RPRRTILFAS WDAEEFGLLG STEWAEENSRLQERGVAYI
 451 NADSSIEGNY TLRVDCTPLM YSLVHNLTKE LKSPDEGFEG KSLYESWTKK
 501 SPSPEFSGMP RISKLGSGND FEVFFQRLGI ASGRARYTKN WETNKFSGYP
 551 LYHSVYETYE LVEKFYDPMF KYHLTVQVR GGMVFELANS IVLPFDCRDY
 601 AVVLRKYADK IYSISMKHPQ EMKTYSVSFD SLFSAVKNFT EIASKFSERL
 651 QDFDKSNPIV LRMMNDQLMF LERAFIDPLG LPDRPFYRHV IYAPSSHNKY
 701 AGESFPGIYD ALFDIESKVD PSKAWGEVKR QIYVAAFTVQ AAAETLSEVA

RN 221455-95-4 HCAPLUS
 CN Protein (human fetal brain gene LGI1 leucine-rich glioma-inactivated
 protein precursor) (9CI) (CA INDEX NAME)

SEQ 1 MESERSKRMG NACIPLKRIA YFLCLLSALL LTEGKKPAKP KCPAVCTCTK
 51 DNALCENARS IPRTVPPDVI SLSFVRSFET EISEGSFLFT PSLQLLLFTS
 101 NSFDFVISDDA FIGLPHLEYL FIENNNIKSI SRHTFRGLKS LIHLSLANNN
 151 LQTLPKDIFK GLDSLNTVDL RGNSFNCDCCK LKWLVEWLGH TNATVEDIYC
 201 EGPPEYKKRK INSLSSKDFD CIITEFAKSQ DLPYQSLSID TFSYLNDEYV
 251 VIAQPFTGKC IFLEWDHVEK TFRNYDNITG TSTVVCKPIV IETQLYVIVA
 301 QLFGGSHIYK RDSFANKFIK IQDIEILKIR KPNDIETFKI ENNWFYFVAD
 351 SSKAGFTTIY KWNGNGFYSH QSLHAWYRDT DVEYLEIVRT PQTLRTPHLI
 401 LSSSSQRPVI YQWNKATQLF TNQTDIPNME DVYAVKHFSV KGDVYICLTR
 451 FIGDSKVMKW GGSSFQDIQR MPSRGSMVFQ PLQINNYQYA ILGSDYSFTQ
 501 VYNWDAEKAK FVKFQELNVQ APRSFTHVSI NKRNFLFASS FKGNTQIYKH
 551 VIVDLA

RN 221877-95-8 HCAPLUS
 CN Protein PRO271 (human clone UNQ238/DNA39423-1182 precursor) (9CI) (CA
 INDEX NAME)

SEQ 1 MGLLLLVLPLL LLPGSYGLPF YNGFYYSNSA NDQNLGNGHG KDLLNGVKLV
 51 VETPEETLFT YQGASVILPC RYRYEPALVS PRRVRVKWWK LSENGAPEKD
 101 VLVAIGLRHR SFGDYQGRVH LRQDKEHDVS LEIQDLRLED YGRYRCEVID
 151 GLEDESGLVE LELRGVVPY QSPNGRYQFN FHEGQVCAE QAAVASFEQ
 201 LFRAWEEGLD WCNAGWLQDA TVQYPIMLPR QPCGGPGLAP GVRSYGPRHR
 251 RLHRYDVFCF ATALKGRVYY LEHPEKLTLT EAREACQEDD ATIAKVGQLF
 301 AAWKFHGLDR CDAGWLADGS VRYPPVHPPH NCGPPEPGVR SFGFPDPQSR
 351 LYGVYCYRQH

RN 224301-63-7 HCAPLUS
CN Secretory protein (human clone HMEET96 266-amino acid precursor) (9CI)
(CA INDEX NAME)

SEQ 1 MWWFQQGLSF LPSALVIWTS AAFIFS YITA VTLHHIDPAL PYISDTGTVA
51 PEKCLFGAML NIAAVLCIAT IYVRYKQVHA LSPEENVIIK LNKAGLVLGI
101 LSCLGLSIVA NFQKTTLFAA HVSGAVLTFG MGSLYMFVQT ILSYQMOPKI
151 HGKQVFWIRL LLVIWCGVSA LSMLTCSSVL HSGNFGTDLE QKLHWNPEDK
201 GYVLHMITTA AEWSMSFSFF GFFLT YIRDF QKISLRVEAN LHGLTLYDTA
251 PCPINNERTR LLSRDI

RN 226934-74-3 HCAPLUS
CN Protein PRO233 (human clone UNQ207 precursor) (9CI) (CA INDEX NAME)

SEQ 1 MKFLLDILL LPLLVCSLE SFVKLFIPKR RKSVTGEIVL ITGAGHGIGR
51 LTAYEFAK LK SKLVLDINK HGLEETAAC KGLGAKVHTF VVDCSNREDI
101 YSSAKKV KAE IGDVSILVNN AGVVYTS DLF ATQDPQIEKT FEVNVLAHFW
151 TTKAFLPAMT KNNHGHIVTV ASAAGHVSVP FLLAYCSSKF AAVGFHKTLT
201 DELAALQITG VKTTCLCPNF VNTGFIKNPS TSLGPTLEPE EVVNRLMHGI
251 LTEQKMIFIP SSIAFLTLE RILPERFLAV LKRKISVKFD AVIGYKMKQAQ

RN 243122-49-8 HCAPLUS
CN Protein PRO706 (human clone UNQ370 extracellular domain-containing) (9CI)
(CA INDEX NAME)

SEQ 1 MLFRNRFLLL LALAALLAFV SLSLQFFHLI PVSTPKNGMS SKSRKRIMPD
51 PVTEPPVTDP VYEALLYCNI PSVAERSMEG HAPHHFKLVS VHVFI RHGDR
101 YPLYVIPKTK RPEIDCTLVA NRKPYHPKLE AFISHMSKGS GASFESPLNS
151 LPLYPNHPLC EMGELTQTGV VQHLQNGQLL RDIYLKKHKL LPNDWSADQL
201 YLETTGKSRT LQSGLALLYG FLPDFDWKKI YFRHQPSALF CSGSCYCPVR
251 NQYLEKEQRR QYLLRLKNSQ LEKTYGEMAK IVDVPTKQLR AANPIDSMCL
301 HFCHNVSFPC TRNGCVDMEH FKVIKTHQIE DERERREKKL YFGYSLLGAH
351 PILNQITGRM QRATEGRKEE LFALYSAHDV TLSPVLSALG LSEARFP RFA
401 ARLIFELWQD REKPSEHSVR ILYNGVDVTF HTSFCQDHHK RSPKPMCPLE
451 NLVRFVKRDM FVALGGSGTN YYDACHREGF

RN 243122-52-3 HCAPLUS
CN Protein PRO707 (human clone UNQ371 extracellular domain-containing) (9CI)
(CA INDEX NAME)

SEQ 1 MIPARLHRDY KGLVLLGILL GTLWETGCTQ IRYSPVEELE KGSRVGDISR
51 DLGLEPRELA ERGVRIIPRG RTQLFALNPR SGSLVTAGRI DREELCMGAI
101 KCQLNLDILM EDKVKIYGVE VEV RDINDNA PYFRESELEI KISENAATEM
151 RFPLPHAWDP DIGKNSLQSY ELSPNTHFSL IVQNGADGSK YPELV LKRAL
201 DREEKAAHHL VLTASDGGDP VRTGTARIRV MVL DANDNAP AFAQPEYRAS
251 VPENLALGTQ LLVVNATDPD EGVNAEVRYS FRYVDDKAAQ VFKLDCNSGT
301 ISTIGELDHE ESGFYQMEVQ AMDNAGYSAR AKVLITVLDV NDNAPEVVLT

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351 SLASSVPENS PRGTLIALLN VNDQDSEENG QVICFIQGNL PFKLEKSYGN
401 YYSLVTDIVL DREQVPSYNI TVTATDRGTP PLSTETHISL NVADTNDNPP
451 VFPQASYSAY IPENNPRGVS LVSVTAHDPD CEENAQITYS LAENTIQGAS
501 LSSYVSINSD TGVLYALSSF DYEQFRDLQV KVMARDNGHP PLSSNVSLSL
551 FVLQDQNDAP EILYPALPTD GSTGVELAPR SAEPGYLVTK VVAVDRDSGQ
601 NAWLSYRLLK ASEPGLFSVG LHTGEVRTAR ALLDRDALKQ SLVVAVQDHG
651 QPPLSATVTL TVAVADSIPQ VLADLGSLES PANSETSDLT LYLVVAVAAV
701 SCVFLAFVIL LLALRLRRWH KSRLQLQASGG GLTGAPASHF VGVDGVQAFL
751 QTYSHEVSLT TDSRKSHLIF PQPNYADMLV SQESFEKSEP LLLSGDSVFS
801 KDSHGLIEVS LYQIFFLFFF NCSVSQAGVQ RYDHSSLRPQ TPRLKQLSHL
851 CLRCNRDYRC KPPTVCLSIY LSIYLSIYLS IYLLLSCTDG SLTPVIPVLW
901 EAEAGGSPEV GSLRPA

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RN 243122-74-9 HCAPLUS
 CN Integrin (human gene ITGA7 α 7-chain isoform α 7X1B) (9CI) (CA
 INDEX NAME)

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SEQ      1 MAGARSRDWP GASGICYLFG SLLVELLFSR AVAFNLDVMG ALRKEGEPGS
      51 LFGFSVALHR QLQPRPQSWL LVGAPQALAL PGQQANRTGG LFACPLSLEE
     101 TDCYRVDIDQ GADMQKESKE NQWLGVSVRS QGPGGKIVTC AHRYEARQRV
     151 DQILETRDMI GRCFVLSQDL AIRDELDGGE WKFCCEGRPQG HEQFGFCQQG
     201 TAAAFSPDSH YLLFGAPGTY NWKGTARVEL CAQGSADLAH LDDGPYEAGG
     251 EKEQDPRLIP VPANSYFGFS IDSGKGLVRA EELS FVAGAP RANHKGAVVI
     301 LRKDSASRLV PEVMLSGERL TSGFGYSLAV ADLNSDGWPD LIVGAPYFFE
     351 RQEELGGAVY VYLNQGGHWA GISPLRLCGS PDSMFGISLA VLGDNLQDGF
     401 PDIAVGAPFD GDGKVFYIHG SSLGVVAKPS QVLEGEAVGI KSFGYSLSGS
     451 LDMDGNQYPD LLVGSLADTA VLFRARPILH VSHEVSIAPR SIDLEQPNCA
     501 GGHSVCVDLR VCFSYIAVPS SYSPTVALDY VLDADTDRLR RGQVPRVTFL
     551 SRNLEPKHQ ASGTVWLKHQ HDRVCGDAMF QLQENVKDKL RAIVVTLSYS
     601 LQTPRLRRQA PGQGLPPVAP ILNAHQPTQ RAEIHFLKQG CGEDKICQSN
     651 LQLVHARFQT RVSDTEFQPL PMDVGTTAL FALSGQPVIG LELMVTNLPS
     701 DPAQPQADGD DAHEAQLLVM LPDSLHYSKV RALDPAEKPL CLSNENASHV
     751 ECELGNPMKR GAQVTFYLIL STSGISIETT ELEVELLLAT ISEQELHPVS
     801 ARARVFIELP LSIAGMAIPQ QLFFSGVVRG ERAMQSERDV GSKVKYEVTV
     851 SNQGQSLRTL GSAFLNIMWP HEIANGKWL L YPMQVELEGG QGPGQKGLCS
     901 PRPNILHLDV DSRDRRRREL EPPEQQEPGE RQEPSMSWWP VSSAEKKKNI
     951 TLDCARGTAN CVVFSCPLYS FDRAAVLHVW GRLWNSTFLE EYSAVKSLEV
    1001 IVRANITVKS SIKNLMLRDA STVIPVMVYL DPMAVVAEGV PWWVILLAVL
    1051 AGLLVALLLV LLLWKMGFFK RAKHPEATVP QYHAVKIPRE DRQQFKEEKT
    1101 GTILRNWGS PRREGPDHP ILAADGHPEL GPDGHPGPGT A

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RN 252050-28-5 HCAPLUS
 CN Membrane protein PRO1133 (human clone DNA53913-1490 precursor) (9CI) (CA
 INDEX NAME)

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SEQ      1 MYLSRSLSIH ALWVTVSSVM QPYPLVWGHY DLCKTQIYTE EGKVWDYMAC
      51 QPESTDMTKY LKVKLDPPDI TCGDPPETFC AMGNPYMCNN ECDASTPELA
     101 HPELMFDFE GRHPSTFWQS ATWKEYPKPL QVNITLSWSK TIELTDNIVI
     151 TFESGRPDQM ILEKSLDYGR TWQPYQYYAT DCLDAFHMDP KSVKDL SQHT
     201 VLEIICTEY STGYTTNSKI IHFEIKDRFA LFAGPRLRNM ASLYGQLD'TT
     251 KKL R DFFTVT DLRIRLLRPA VGEIFVDELH LARYFYAISD IKVRGRCKCN
     301 LHATVCVYDN SKLTCECEHN TTGPDCGKCK KNYQGRPWSP GSYLPPIKGT
     351 ANTCIPSISS IGTNVCDNEL LHCQNGGTCH NNVRCLCPAA YTGILCEKLR

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401 CEEAGSCGSD SGQGAPPHGT PALLLLTTLL GTASPLVF

RN 252050-35-4 HCAPLUS
CN Membrane protein PRO783 (human clone DNA53996-1442 precursor) (9CI) (CA
INDEX NAME)

SEQ 1 MEAPDYEVLS VREQLFHERI RECIISTLLF ATLYILCHIF LTRFKKPAEF
51 TTVDDEDATV NKIALELCTF TLAIALGAVL LLPFSIISNE VLLSLPRNYY
101 IQWLNGSLIH GLWNLVFLFP NLSLIFLMPF AYFFTESEGF AGSRKGVLR
151 VYETVVMLML LTLLVLGMVW VASAIVDKNK ANRESLYDFW EYYLPYLYSC
201 ISFLGVLLLL VCTPLGLARM FSVTGKLLVK PRLLEDLEEQ LYCSAFEEAA
251 LTRRICNPTS CWLPLDMELL HRQVLALQTQ RVLLEKRRKA SAWQRNLGYP
301 LAMLCLLVLT GLSVLIVAIH ILELLIDEAA MPRGMQGTSL GQVSFSKLG
351 FGAVIQVVLV FYLMVSSVVG FYSSPLFRSL RPRWHDAMT QIIGNCVCLL
401 VLSSALPVFS RTLGLTRFDL LGDFGRFNWL GNFYIVFLYN AAFAGLTTL
451 LVKTFTAAVR AELIRAFGLD RLPLPVSGFP QASRKTQHQ

RN 252050-55-8 HCAPLUS
CN Membrane protein PRO937 (human clone DNA56436-1448 precursor) (9CI) (CA
INDEX NAME)

SEQ 1 MARFGLPALL CTLAVLSAAL LAAELKSKSC SEVRRLYVSK GFNKNDAPLH
51 EINGDHLKIC PQGSTCCSQE MEEKYSLQSK DDFKSVVSEQ CNHLQAVFAS
101 RYKKFDEFFK ELLENAEKSL NDMFVKTYGH LYMQNSELFK DLFVELKRY
151 VVGNVNLEEM LNDFWARLLE RMFRLVNSQY HFTDEYLECV SKYTEQLKPF
201 GDVPRKLKLQ VTRAFVAART FAQGLAVAGD VVSKVSVVNP TAQCTHALLK
251 MIYCSHCRGL VTVKPCYNIC SNIMRGCLAN QGDLD FEWNN FIDAMLMVAE
301 RLEGPFNIES VMDPIDVKIS DAIMNQDNS VQVSQKVFG CGPPKPLPAG
351 RISRSISESA FSARFRPHHP EERPTTAAGT SLDRLVTDVK EKLLQAKKFW
401 SSLPSNVCND ERMAAGNGNE DDCWNGKGKS RYLFAVTGNG LANQGNPEV
451 QVDTSKPDIL ILRQIMALRV MTSKMKNAYN GNDVDFFDIS DESSGEGSGS
501 GCEYQQCPSE FDYNATDHAG KSANEKADSA GVRPGAQAYL LTVFCILFLV
551 MQREWR

RN 252196-85-3 HCAPLUS
CN Membrane protein PRO1138 (human clone DNA58850-1495 precursor) (9CI) (CA
INDEX NAME)

SEQ 1 MAGSPTCLTL IYILWQLTGS AASGPVKELV GSVGGAVTFP LKSKVKQVDS
51 IVWTFNTTPL VTIQPEGGTI IVTQNRNRER VDFPDGGYSL KLSKLKKNDS
101 GIYYVGIYSS SLQQPSTQEY VLHVEHLSK PKVTMGLQSN KNGTCVTNLT
151 CMEHGEEDV IYTWKALGQA ANESHNGSIL PISWRWGESD MTFICVARNP
201 VSRNFSSPIL ARKLCEGAAD DPDSSMVLLC LLLVPLLLSL FVLGLFLWFL
251 KRERQEEYIE EKKRVDICRE TPNICPHSGE NTEYDTIPHT NRTILKEDPA
301 NTVYSTVEIP KKMENPHSLT TMPDTPRLFA YENVI

RN 253579-88-3 HCAPLUS
CN Protein (human clone HP10537 hydrophobic domain-containing) (9CI) (CA

INDEX NAME)

SEQ 1 MGRVSGLVPS RFLTLLAHLV VVITLFWSRD SNIQACLPLT FTPEEYDKQD
 51 IQLVAALSVT LGLFAVELAG FLSGVSMFNS TQSLISIGAH CSASVALSFF
 101 IFERWECTTY WYIFVFCSAL PAVTEMALFV TVFGLKKKPF

RN 260382-23-8 HCAPLUS

CN Protein PRO1359 (human clone DNA59219-1613 precursor) (9CI) (CA INDEX NAME)

SEQ 1 MSSNKEQRSA VFVILFALIT ILILYSSNSA NEVFHYGSLR GRSRRPVNLK
 51 KWSITDGYVP ILGNKTLPSR CHQCVIVSSS SHLLGTLKLP EIERAECTIR
 101 MNDAPTTGYS ADVGNKTTYR VVAHSSVFRV LRRPQEFVNR TPETVFIFWG
 151 PPSKMQKPQG SLVRVIQRAG LVFPNMEAYA VSPGRMRQFD DLFRGETGKD
 201 REKSHSWLST GWFTMVIAGE LCDHVHVYGM VPPNYCSQRP RLQRMPIHYH
 251 EPKGPDECVT YIQNEHSRKG NHHRFITEKR VFSSWAQLYG ITFSHPSWT

RN 260534-95-0 HCAPLUS

CN Protein PRO1249 (human clone DNA62809-1531 precursor) (9CI) (CA INDEX NAME)

SEQ 1 MQKASVLLFL AWCFLFYAG IALFTSGFLL TRLELTNHSS CQEPGPGSL
 51 PWGSQKPGA CWMASRFSRV VLVLIDALRF DFAQPQHSV PREPPVSLPF
 101 LGKLSSLQRI LEIQPHHARL YRSQVDPPTT TMQRLKALT'T GSLPTFIDAG
 151 SNFASHAIVE DNLIKQLTSA GRRVVFMDG TWKDLFPAGF SKAFFFPSPFN
 201 VRDLDTVDNG ILEHLYPTMD SGEWDVLIAH FLGVDHCHGK HGP HHPEMAK
 251 KLSQMDQVIQ GLVERLENDT LLVVAGDHGM TTNGDHGSDS ELEVSAAFL
 301 YSPTAVFPST PPEEPEVIPQ VSLVPTLALL LGLPIPFNGI GEVMAELFSG
 351 GEDSQPHSSA LAQASALHLN AQQVSRFLHT YSAATQDLQA KELHQLQNLF
 401 SKASADYQWL LQSPKGAEAT LPTVIAELQQ FLRGARAMCI ESWARFSLVR
 451 MAGGTALLAA SCFICLLASQ WAISPGFPFC PLLLTTPVAG LVGAIAYAGL
 501 LGTIELKLDL VLLGAVAAVS SFLPFLWKAW AGWGSKRPLA TLFPIPGPVL
 551 LLLLFRLLAVF FSDSFVVAEA RATPFLLGSF ILLLVVQLHW EGQLLPKLL
 601 TMPRLGTSAT TNPPRHNGAY ALRLGIGLLL CTRLAGLFHR CPEETPVCHS
 651 SPWLSPLASM VGGRAKNLWY GACVAALVAL LAAVRLWLR YGNLKSPEPP
 701 MLFVRWGLPL MALGTAAWY LASGADEAPP RLRVLVSGAS MVLPRAVAGL
 751 AASGLALLLW KPVTVLVKAG AGAPRTRTVL TPFSGPPTSQ ADLDYVVPQI
 801 YRHMQUEFRG RLERTKSQGP LTVAAYQLGS VYSAAMVTAL TLLAFPLLLL
 851 HAERISLVFL LLFLQSFLLL HLLAAGIPVT TPGPFTVPWQ AVSAWALMAT
 901 QTFYSTGHQP VFPAIHWAA FVGFPFGHGS CTWLPALLVG ANTFASHLLF
 951 AVGCPLLLLW PFLCESQGLR KRQPPGNEA DARVRPEEEE EPLMEMRLRD
 1001 APQHFYAALL QLGLKYLFI GIQILACALA ASILRRHLMV WKVFAPKFIF
 1051 EAVGFIVSSV GLLLGIALVM RVDGAVSSWF RQLFLAQQR

RN 260535-09-9 HCAPLUS

CN Protein PRO1336 (human clone DNA65423-1595 precursor) (9CI) (CA INDEX NAME)

SEQ 1 MAPGWAGVGA AVRARLALAL ALASVLSGPP AVACPTKCTC SAASVDCHGL

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51 GLRAVPRGIP RNAERLDLDR NNITRITKMD FAGLKNLRVL HLEDNQVSVI
101 ERGAFQDLKQ LERLRLNKNK LQVLPELLFQ STPKLTRLDL SENQIQGIPR
151 KAFRGITDVK NLQLDNNHIS CIEDGAFRAL RDLEILTLNN NNISRILVTS
201 FNHMPKIRTL RLHSNHLYCD CHLAWLSDWL RQRRTVGQFT LCMAPVHLRG
251 FNVADVQKKE YVCPAPHSEP PSCNANSISC PSPCTCSNNI VDCRGKGLME
301 IPANLPEGIV EIRLEQNSIK AIPAGAFTQY KKLKRIDISK NQISDIAPDA
351 FQGLKSLTSL VLYGNKITEI AKGLFDGLVS LQLLLLNNANK INCLRVNTFQ
401 DLQNLNLLSL YDNKLQTISK GLFAPLQSIQ TLHLAQNPFFV CDCHLKWLDL
451 YLQDNPIETS GARCSSPRRL ANKRISQIKS KKFRCSGSED YRSRFSSECF
501 MDLVCPEKCR CEGTIVDCSN QKLVRIPSHL PEYVTDLRLN DNEVSVLEAT
551 GIFKKLPNLR KINLSNNKIK EVREGAFDGA ASVQELMLTG NQLETVHGRV
601 FRGLSGLKTL MLRSNLISCV SNDTFAGLSS VRLLSLYDNR ITTITPGAFT
651 TLVSLSTINL LSNPFNCNCH LAWLGKWLK RRIVSGNPRC QKPFFLKEIP
701 IQDVAIQDFT CDGNEESSCQ LSPRCPEQCT CMETVVRCNS KGLRALPRGM
751 PKDVTLEYL GNHLTAVPRE LSALRHLTLI DLSNNSISML TNYTFSNMSH
801 LSTLILSYNR LRCIPVHAFN GLRSLRVLT TLHGNDISSVPE GSFNDLTSLS
851 HLAGTNPLH CDCSLRWLSE WVKAGYKEPG IARCSSPEPM ADRLLLLTPT
901 HRFQCKGPVD INIVAKCNAC LSSPCKNNGT CTQDPVELYR CACPYSYKKG
951 DCTVPINTCI QNPCQHGGTC HLSDSHKDG F SCSCPLGFEG QRCEINPDDC
1001 EDNDCENNAT CVDGINNYVC ICPPNYTGEL CDEVIDHCVP ELNLCQHEAK
1051 CIPLDKGFSC ECVPGYSGKL CETDNDDCVA HKCRHGAQCV DTINGYTCTC
1101 PQGFSGPFCE HPPPMVLLQT SPCDQYECQN GAQCIVVQOE PTCRCPPGFA
1151 GPRCEKLITV NFVGKDSYVE LASAKVRPQA NISLQVATDK DNGILLYKGD
1201 NDPLALELYQ GHVRLVYDSL SSPPTTVYSV ETVNDGQFHS VELVTNLNQT
1251 NLVVDKGT PK SLGKLQKQPA VGINSPLYLG GIPTSTGLSA LRQGTDRPLG
1301 GFHGCIEHRV INNELQDFKA LPPQSLGVSP GCKSCTVCKH GLCRSVEKDS
1351 VVCECRPGWT GPLCDQEARD PCLGHRCHHG KCVATGTSTY CKCAEGYGGD
1401 LCDNKNSAN ACSAFKCHHG QCHISDQGE YCLCQPGFSG EHCQENPCL
1451 GQVVREVIRR QKGYASCATA SKVPIMECRG GCGPQCCQPT RSKRRKYVFQ
1501 CTDGSSFVEE VERHLECGCL ACS

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RN 260535-16-8 HCAPLUS

CN Protein PRO1337 (human clone DNA66672-1586 precursor) (9CI) (CA INDEX NAME)

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SEQ      1 MASYLYGVLF AVGLCAPIYC VSPANAPSAY PRPSSTKSTP ASQVYSLNTD
51 FAFRLYRRLV LETPSQNIFF SPVSVSTSLA MLSLGAHSVT KTQILQGLGF
101 NLHTHPESAI HQGFQHLVHS LTVPSKDLTL KMGSAFLVKK ELQLQANFLG
151 NVKRLYBAEV FSTDFSNSPI AQARINSHVK KKTQGVVDI IQGLDLLTAM
201 VLVNHIFPKA KWEKPFHLEY TRKNFPFLVG EQVTVQVPM HKEQFAFGV
251 DTELNCFLVQ MDYKGDAVAF FVLPSKGKMR QLEQALSART LIKWSHSLQK
301 RWIEVFIPRF SISASYNLET ILPKMGIQNA FDKNADFSGI AKRDSLQVSK
351 ATHKAVLDVS EEGTEATAAT TTKFIVRSKD GPSYFTVSFN RTFLMMITNK
401 ATDGILFLGK VENPTKS

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RN 260535-18-0 HCAPLUS

CN Protein PRO1480 (human clone DNA67962-1649 precursor) (9CI) (CA INDEX NAME)

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SEQ      1 MLRTAMGLRS WLAAPWGALP PRPPLLLLLL LLLLLQPPPP TWALSPRISL
51 PLGSEERPFL RFEAEHISNY TALLLSRDGR TLYVGAREAL FALSSNLSFL
101 PGGEYQELLW GADAEKKQQC SFKKGDPQD CQNYIKILLP LSGSHLFTCG
151 TAAFSMCTY INMENFTLAR DEKGNVLLD GKGRCPDPN FKSTALVVDG

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201 ELYTGTVSSF QGNDPAISRS QSLRPTKTES SLNWLQDPAF VASAYIPESL
251 GSLOGDDDKI YFFFSETGQE FEFFENTIVS RIARICKGDE GGERVLQQRW
301 TSFLKAQLLC SRPDDGFPFN VLQDVFTLSP SPQDWRDTLF YGVFTSQWHR
351 GTTEGSAVCV FTMKDVQRVF SGLYKEVNRE TQQWYTVTHP VPTPRPGACI
401 TNSARERKIN SSLQLPDRVL NFLKDHFLMD GQVRSRMLLL QPQARYQRVA
451 VHRVPGLHHT YDVLFLGTGD GRLHKAVSVG PRVHIIIEELQ IFSSGQPVQN
501 LLLDTHRGLL YAASHSGVVQ VPMANCSLYR SCGDCLLARD PYCAWSGSSC
551 KHVSLYQPQL ATRPWIQDIE GASAKDLCSA SSVVSPSFVP TGEKPCEQVQ
601 FQPNTVNTLA CPLLSNLATR LWLRNGAPVN ASASCHVLPT GDLLLVTGQQ
651 LGEFQCWSLE EGFQQLVASI CPEVVEDGVA DQTDEGGSVP VIISTSRVSA
701 PAGGKASWGA DRSYWKEFLV MCTLFVLAVL LPVLFLLYRH RNSMKVFLKQ
751 GECASVHPKT CPVVLPPETR PLNGLGPPST PLDHRGYQSL SDSPPGARVF
801 TESEKRPLSI QDSFVEVSPV CPRPRVRLGS EIRDSV

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RN 297774-92-6 HCAPLUS

CN Protein PRO4352 (human clone DNA87976-2593) (9CI) (CA INDEX NAME)

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SEQ      1 MAVRELCPFR QRQVLFLFLF WGVSLAGSGF GRYSVTEETE KGSFVVNLAK
      51 DLGLAEGELA ARGTRVVSDD NKQYLLLDLH TGNLLTNEKL DREKLCGPKE
     101 PCMLYFQILM DDPFQIYRAE LRVRDINDHA PVFQDKETVL KISENTAEGT
     151 AFRLERAQDP DGGLNGIQNY TISPNSFFHI NISGGDEGMI YPELVLDKAL
     201 DREEQGELSL TLTALDGGSP SRSGTSTVRI VLDVNDNAP QFAQALYETQ
     251 APENSPIGFL IVKVWAEDVD SGVNAEVSYS FFDASENIRT TFQINPFSGE
     301 IFLRELLDYE LVNSYKINIQ AMDGGGLSAR CRVLVEVLDT NDNPPELIVS
     351 SFSNSVAENS PETPLAVFKI NDRDSGENGK MVCYIQENLP FLLKPSVENF
     401 YILITEGALD REIRAEYNIT ITVTDLGTTPR LKTEHNITVL VSDVNDNAPA
     451 FTQTSYTLFV RENNSPALHI GSVSATDRDS GTNAQVTYSL LPPQDPHLPL
     501 ASLVSINADN GHLFALRSLD YEALQAFEFR VGATDRGSPA LSREALVRVL
     551 VLDANDNSPF VLYPLQNGSA PCTELVPRAA EPGYLVTKVV AVDGDGSGQNA
     601 WLSYQLLKAT EPGLFGVWAH NGEVRTARLL SERDAAKHRL VVLVKDNGEP
     651 PRSATATLHL LLVDGFSQPY LPLPEAAPAQ AQAEADLLTV YLVVALASVS
     701 SLFLLSVLLF VAVRLCRRSR AASVGRCSV EGPFPGLHVD VRGAETLSQS
     751 YQYEVCLTGG PGTSEFKFLK PVISDIAQAG PGRKGEENST FRNSFGFNIO

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RN 297774-95-9 HCAPLUS

CN Protein PRO6030 (human clone DNA96850-2705) (9CI) (CA INDEX NAME)

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SEQ      1 MALPPGPAAL RHTLLLLPAL LSSGWGELEP QIDGQTWAER ALRENERHAF
      51 TCRVAGGPGT PRLAWYLDGQ LQEASTSRLL SVGGEAFSGG TSTFTVTAHR
     101 AQHELNCSLQ DPRSGRSANA SVILNVQFKP EIAQVGAKYQ EAQGPGLLVV
     151 LFALVRANPP ANVTWIDQDG PVTVNTSDFL VLDAQNPWL TNHTVQLQLR
     201 SLAHNLSVVA TNDVGVTAS LPAPGPSRHP SLISSDSNNL KLNNVRLPRE
     251 NMSLPSNLQL NDLTPDSRAV KPADRQMAQN NSRPELLDPE PGGLLTSQGF
     301 IRLPVLGYIY RVSSVSSDEI WL

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RN 321202-67-9 HCAPLUS

CN Cytokine receptor Zcytor14-1 (synthetic human) (9CI) (CA INDEX NAME)

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SEQ      1 MPVPWFLLSL ALGRSPVVL LERLVGPQDA THCSPGLSCR LWSDILCLP
      51 GDIVPAPGPV LAPTHLQTEL VLRCQKETDC DLCLRVAVHL AVHGHWEEPE

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101 DEEKFGGAAD SGVEEPRNAS LQAQVVLFSQ AYPTARCVLL EVQVPAALVQ
151 FGQSVGSSVY DCFEAAALGSE VRIWSYTQPR YEKELNHTQQ LPALPWLNVS
201 ADGDNVHLVL NVSEEQHFGL SLYWNQVQGP PKPRWHKNLT GPQIITLNHT
251 DLVPCLCIQV WPLEPDSVRT NICPFREDPR AHQNLWQAAR LRLTLQSWL
301 LDAPCSLPAE AALCWRAPGG DPCQPLVPPL SWENVTVDKV LEFPLLKGHP
351 NLCVQVNSSE KLQLQECLWA DSLGPKDDV LLETRGPQD NRSLCALEPS
401 GCTSLPSKAS TRAARLGEYL LQDLQSGQCL QLWDDDLGAL WACPMDKYIH
451 KRWALVWLAC LLFAAALSLI LLLKKDHAKG WLRLKKQDVR SGAAARGRAA
501 LLLYSADDSG FERLVGALAS ALCQLPLRVA VDLWSRRELS AQGPVAFWHA
551 QRRQTLQEGG VVLLLFSPGA VALCSEWLQD GVSQPGAHGP HDAFRASLSC
601 VLPDFLQGRA PGSYVGACFD RLLHPDAVPA LFRTVPVFTL PSQLPDFLGA
651 LQQPRAPRSG RLQERAEQVS RALQPALDSY FHPPGTPAPG RGVGPGAGPG
701 AGDGT

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RN 329799-91-9 HCAPLUS

CN Protein PRO3566 (human clone DNA59844-2542 precursor) (9CI) (CA INDEX NAME)

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SEQ      1 MQGRVAGSCA PLGLLLVLCH LPGLFARSIG VVEEKVSQNF GTNLPLQLGQP
          51 SSTGPSNSEH PQPALDPRSN DLARVPLKLS VPPSDGFPPA GGSQVQRWPP
          101 SWGLPAMDSW PPEDPWQMMMA AAAEDRLGEA LPEELSYLSS AAALAPGSGP
          151 LPGESSPDAT GLSPEASLLH QDSESRRLPR SNSLGAGGKI LSQRPPWSLI
          201 HRVLPDHPWG TLNPSVSWG GPGGTGWGTR PMPHPEGIWG INNQPPGTSW
          251 GNINRYPGGS WGNINRYPGG SWGNINRYPG GSWGNIHLYP GINNPFPPGV
          301 LRPPGSSWNI PAGFPNPPSP RLQWG

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RN 329799-99-7 HCAPLUS

CN Protein PRO1342 (human clone DNA66674-1599 precursor) (9CI) (CA INDEX NAME)

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SEQ      1 MKMQKGNVLL MFGLLLHLEA ATNSNETSTS ANTGSSVISS GASTATNSGS
          51 SVTSSGVSTA TISGSSVTSN GVSIVTNSEF HTTSSGISTA TNSEFSTASS
          101 GISIATNSES STTSSGASTA TNSESSTPSS GASTVTNSGS SVTSSGASTA
          151 TNSESSTVSS RASTATNSES STLSSGASTA TNSDSSTTSS GASTATNSES
          201 STTSSGASTA TNSESSTVSS RASTATNSES STTSSGASTA TNSESRTTSN
          251 GAGTATNSES STTSSGASTA TNSDSSTVSS GASTATNSES STTSSGASTA
          301 TNSESSTTSS GASTATNSDS STTSSGAGTA TNSESSTVSS GISTVTNSES
          351 STPSSGANTA TNSESSTTSS GANTATNSES STVSSGASTA TNSESSTTSS
          401 GVSTATNSES STTSSGASTA TNSDSSTTSS EASTATNSES STVSSGISTV
          451 TNSESSTTSS GANTATNSGS SVTSAGSGTA ALTGMHTTSH SASTAVSEAK
          501 PGGSLVPWEI FLITLVSVA AVGLFAGLFF CVRNSLSLRN TFNTAVYHPH
          551 GLNHGLGPGP GGNHGAPHRP RWSPNWFWRP PVSSIAMEMS GRNSGP

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RN 329800-10-4 HCAPLUS

CN Protein PRO1925 (human clone DNA82302-2529 precursor) (9CI) (CA INDEX NAME)

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SEQ      1 MSARGRWEWG GRRACRGS LG LARAQGAERV TSSEQRPA MA SLGLLLLLLL
          51 TALPPLWSSS LPGLDTAESK ATIADLILSA LERATVFLEQ RLPEINLDGM
          101 VGVRVLEEQL KSVREKWAQE PLLQPLSLRV GMLGEKLEAA IQRS LHYLKL

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151 SDPKYLREFQ LTLQPGFWKL PHAWIHTDAS LVYPTFGPQD SFSEERSDVC
201 LVQLLGTTGT SSEPCLSDL CRSLMTKPGC SGYCLSHQLL FFLWARMRGC
251 TQGPLQQSQD YINLFCANMM DLNRRAEAIG YAYPTRDIFM ENIMFCGMGG
301 FSDFYKLRWL EAILSWQKQQ ECGFGEPAE DEELSKAIQY QQHFSRRVKR
351 REKQFPDSRS VAQAGVQWRN LGSLQPLPPG FKQFSCILIP SSWDYRSVPP
401 YLANFYIFLV ETGFHHVAHA GLELLISRDPTSGSQSVGL

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RN 339596-83-7 HCAPLUS

CN Secretory protein (human clone HDPWP69 458-amino acid precursor) (9CI)
(CA INDEX NAME)

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SEQ      1 MMLIPMASVM AVTEPKWVS VSRFLWVTLL SMVLGSLALL LLPLGAVEEQ
      51 CLAVLKGLYL LRSKPDRAQH AATKCTSPST ELSITSRGAT LLVAKTKASP
     101 AGKLEARAAL NQALEMKRQG KREKAQKLFM HALKMDPDFV DALTEFGIFS
     151 EEDKDIIQAD YLYTRALTIS PYHEKALVNR DRTLPLVEEI DQRYFSIIDS
     201 KVKKVM SIPK GNSALRRVME ETTYHHIYHT VAIEGNTLTL SEIRHILETR
     251 YAVPGKSL EE QNEVIGMHAA MKYINTTLVS RIGSVTISDV LEIHRRVLGY
     301 VDPVEAGRFR TTQVLVGH HI PPHPQDVEKQ MQEFVQWLNS EEAMNLHPVE
     351 FAALAHYKLV YIHPFIDGNG RTSRLLMNLI LMQAGYPPIT IRKEQRSYY
     401 HVLEANE G D VRPFIRFIAK CTETTLDTLL FATTEYSVAL PEAQPNHSGF
     451 KETLPVKP

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RN 350264-81-2 HCAPLUS

CN Hydrophobic domain-containing protein (human clone HP03934 precursor)
(9CI) (CA INDEX NAME)

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SEQ      1 MAPKKLSCLR SLLLPLSLTL LLPQADTRSF VVDRGHDRFL LDGAPFRYVS
      51 GSLHYFRVPR VLWADRLLKM RWSGLNAIQF YVPWNYHEPQ PGVYNFNGSR
     101 DLIAFLNEAA LANLLVILRP GPYICAEWEM GGLPSWLLRK PEIHLRTSDP
     151 DFLAAVDSWF KVLLPKIYPW LYHNGGNIIS IQVENEYGSY RACDFS YMRH
     201 LAGLFRALLG EKILLFTTDG PEGLKCGSLR GLYTTVD FGP ADNMTKI FTL
     251 LRKYEPHG PL VNSEYYTGWL DYWGQNHSTR SVSAVTKGLE NMLKLGASVN
     301 MYMFHGGTNF GYWNGADKKG RFLPITTSYD YDAPISEAGD PTPKLFALRD
     351 VISKFQEVPL GPLPPSPKM MLGPVTLHLV GHLLAFLDLL CPRGPIHSIL
     401 PMTFEAVKQD HGFMLYRTYM THTIFEPTPF WVPNNGVHDR AYVMVDGVFQ
     451 GVVERNMRDK LFLTGKL GSK LDILVENMGR LSFGSNSSDF KGLLKPPILG
     501 QTILTQWMMF PLKIDNLVKW WFPLQLPKWP YPQAPSGPTF YSKTFPILGS
     551 VGDTFLYLPG WTKGQVWING FNLGRYWKQ GPQQTLYVPR FLLFPRGALN
     601 KITLLELEDV PLQPQVQFLD KPILNSTSTL HRTHINSLSA DTL SASEPME
     651 LSGH

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RN 354592-21-5 HCAPLUS

CN Leucine-rich repeat protein (human 692-amino acid precursor sequence
homolog) (9CI) (CA INDEX NAME)

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SEQ      1 MELLPLWLCL GFHFLT V GWR NRS GTATAAS QGVCKLVGGA ADCRGQSLAS
      51 VPSSLPPHAR MLTLDANPLK TLWNHSLQPY PLLESLSLHS CHLERISRGA
     101 FQE QGH LRS L VLGDNCLSEN YEETAAALHA LPGLRRDLDS GNALTEDMAA
     151 LMLQNLSSLR SVSLAGNTIM RLDDSVFEGL ERLRELDLQR NYIFEIEGGA
     201 FDGLAELRHL NLA FN NLP CI VDFGLTRLRV LNVSYNVLEW FLATGGEAAF

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251 ELETLDLSHN QLLFFPLLPQ YSKLRTLLLR DNNMGFYRDL YNTSSPREMV
301 AQFLLVDGNV TNITTVSLWE EFSSSDLADL RFLDMSQNF QYLPDGFLRK
351 MPSSLHLNLH QNCLMTLHIR EHEPPGALTE LDLSHNQLSE LHLAPGLASC
401 LGSLRLFNLS SNQLLGVPFG LFANARNITT LDMSHNQISL CPLPAASDRV
451 GPPSCVDFRN MASLRSLSE GCGLGALPDC PFQGTSLTYL DLSSNWGVNL
501 GSLAPLQDVA PMLQVLSLRN MGLHSSFMAI DFSGFGNLRD LDLSGNCLTT
551 FPRFGGSLAL ETLDLRRNSL TALPQKAVSE QLSRGLRTIY LSQNPYDCCG
601 VDWGALQHG QTVADWAMVT CNLSSKIIRV TELPGGVPRD CKWERLDLGL
651 LYLVLILPSC LTLLVACTVI VLTFFKKPLLQ VIKSRCHWSS VY

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RN 362642-14-6 HCAPLUS
 CN Protein PRO19630 (human clone DNA23336-2861 precursor) (9CI) (CA INDEX NAME)

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SEQ      1 MDRDLLRQSL NCHGSSLLSL LRSEQQDNPH FRSLLGSAAE PARGPPPQHP
      51 LQGRKEKRVN NIEIQKFISK KADLLFALSW KSDAPATSEI NEDSEDHYAI
     101 MPPLEQFMEI PSMDRRELFF RDIERGDIVI GRISSIREFG FFMVLICLGS
     151 GIMRDIAHLE ITALCPLRDV PSHSNHGDPL SYYQTGDIIR AGIKDIDRYH
     201 EKLAIVSLYS SLPPHLSGIK LGVISSEELP LYYRRSVELN SNSLESYENV
     251 MQSSILGFVNP GVVEFLLEKL GIDESNPPSL MRGLQSKNFS EDDFASALRK
     301 KQSASWALKC VKIGVDYFKV GRHVDAMNEY NKALEIDKQN VEALVARGAL
     351 YATKGSLNKA IEDFELALEN CPTHNRNARKY LCQTLVERGG QLEEEEEKFLN
     401 AESYYKKALA LDETFKDAED ALQKLHKYMQ KSLELREKQA EKEEKQKTKK
     451 IETSAEKLRL LLKEEKRLKK KRRKSTSSSS VSSADESVSS SSSSSSSGHK
     501 RHKKHKRNRS ESSRSSRRHS SRASSNQIDQ NRKDECYPVP ANTSASFLNH
     551 KQEVKLLGK QDRLLQYEKTQ IKEKDRCPIS SSSLEIPDDF GVYSYLFKKL
     601 TIKQPQAGPS GDIPEEGIVI IDDSIIHVTD PEDLQVGQDM EVEDSGIDDP
     651 DHG

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L72 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:265459 HCAPLUS

DOCUMENT NUMBER: 134:290751

TITLE: Recombinant single-chain receptor antagonist proteins and their use in treatment of inflammatory disorders
 INVENTOR(S): Halkier, Torben; Schambye, Hans Thalsgard; Okkels, Jens Sigurd; Andersen, Kim Vilbourn; Nissen, Torben Lauesgaard; Soni, Bobby; Jeppesen, Claus Bekker; Van Den Hazel, Bart

PATENT ASSIGNEE(S): Maxygen Aps, Den.

SOURCE: PCT Int. Appl., 123 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001025277	A1	20010412	WO 2000-DK563	20001006 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,				

SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
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 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1226173 A1 20020731 EP 2000-965860 20001006
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL

US 2004014948 A1 20040122 US 2003-444691 20030523
 PRIORITY APPLN. INFO.: DK 1999-1438 A 19991007
 DK 1999-1855 A 19991223
 DK 2000-1119 A 20000720
 US 1999-160820P P 19991021
 US 2000-174655P P 20000106
 US 2000-225723P P 20000816
 US 2000-684720 B1 20001006
 WO 2000-DK563 W 20001006

AB The invention relates to a single-chain oligomeric protein antagonist which binds to an extracellular ligand-binding domain of a cellular receptor of a type requiring binding of an oligomeric ligand to two or more receptor subunits to be activated, the protein comprising at least two, typically structurally homologous, receptor-binding sites of which at least one is capable of binding to a ligand-binding domain of the cellular receptor and at least one is incapable of effectively binding to a ligand-binding domain of the cellular receptor, whereby the single-chain oligomeric protein is capable of binding to the receptor, but incapable of activating the receptor; as well as to nucleotide sequences encoding such single-chain oligomeric proteins, expression vectors comprising such a nucleotide sequence, recombinant host cells comprising such a nucleotide sequence or expression vector, methods for producing the nucleotide sequences and proteins, pharmaceutical compns. comprising the single-chain oligomeric protein, and use of the single-chain oligomeric protein for the production of medicaments and in therapy. A preferred single-chain antagonist according to the invention is a **TNF-.alpha.** antagonist. Thus, a single-chain **TNF-.alpha.** protein comprising of 3 human **TNF-.alpha.** chains connected by linker peptides was produced with *Saccharomyces cerevisiae* and shown to be an agonist of the **TNF-.alpha.** receptor. The same **TNF-.alpha.** trimer containing Y87R mutations in the first and third copies of **TNF-.alpha.** was also prepared. This was shown to be a partial **TNF-.alpha.** agonist and a competitive antagonist of the **TNF-.alpha.** receptor.

IT **334838-89-0P**

RL: BAC (Biological activity or effector, except adverse); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation)
 (amino acid sequence; recombinant single-chain receptor antagonist proteins and their use in treatment of inflammatory disorders)

RN 334838-89-0 HCAPLUS

CN Tumor necrosis factor α trimer (synthetic human) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **334838-90-3P**

RL: BAC (Biological activity or effector, except adverse); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; recombinant single-chain receptor antagonist

proteins and their use in treatment of inflammatory disorders)
RN 334838-90-3 HCAPLUS
CN Tumor necrosis factor α trimer [87-arginine,429-arginine] (synthetic human) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 334845-09-9 334845-11-3
RL: PRP (Properties)
(unclaimed protein sequence; recombinant single-chain receptor antagonist proteins and their use in treatment of inflammatory disorders)
RN 334845-09-9 HCAPLUS
CN 4: PN: WO0125434 PAGE: 89 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 RTPSDKPVAH VVANPQAEQG LQWLNRRANA LLANGVELRD NQLVVPSEGL
51 YLIYSQVLFFK GQGCPSTHVL LTHTISRIV SYQTKVNLLS AIKSPCQRET
101 PEGAEAKPWY EPIYLGGVFQ LEKGDRLSAE INRPDYLLFA ESGQVYFGII
151 AL

RN 334845-11-3 HCAPLUS
CN 2: PN: WO0125434 FIGURE: 4 unclaimed protein (9CI) (CA INDEX NAME)

SEQ 1 MRFPSIFTAV LFAASSALAA PVNTTTEDET AQIPAEAVIG YSDLEGDFDV
51 AVLPPFSNSTN NGLLFINTTI ASIAAKEEGV SLEKVRSSS RTPSDKPVAH
101 VVANPQAEQG LQWLNRRANA LLANGVELRD NQLVVPSEGL YLIYSQVLFFK
151 GQGCPSTHVL LTHTISRIV SYQTKVNLLS AIKSPCQRET PEGAEAKPWY
201 EPIYLGGVFQ LEKGDRLSAE INRPDYLDFA ESGQVYFGII ALGSTSGSGK
251 SSEGKGVRS SRTPSDKPVA HVVANPQAEQ QLQWLNRRAN ALLANGVELR
301 DNQLVVPSEG LYLIYSQVLFFK KGQGCPSTHV LLTHTISRIV VSYQTKVNLL
351 SAIKSPCQRE TPEGAEAKPW YEPIYLGGVF QLEKGDRLSA EINRPDYLDFA
401 AESGQVYFGI IALGSTSGSG KSSEKGVRS SSRTPSDKPV AHVVANPQAE
451 GQLQWLNRRAN NALLANGVEL RDNQLVVPSE GLYLIYSQVL FKGQGCPSTH
501 VLLTHTISRIV AVSYQTKVNLLS LSAIKSPCQR ETPEGAEAKP WYEPIYLGGV
551 FQLEKGDRLS AEINRPDYLD FAESGQVYFG IIAL

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L72 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:168142 HCAPLUS

DOCUMENT NUMBER: 134:232695

TITLE: Nucleic acids encoding human secreted and transmembrane polypeptides

INVENTOR(S): Eaton, Dan L.; Filvaroff, Ellen; Gerritsen, Mary E.; Goddard, Audrey; Godowski, Paul J.; Grimaldi, Christopher J.; Gurney, Austin L.; Watanabe, Colin K.; Wood, William I.

PATENT ASSIGNEE(S): Genentech, Inc., USA

SOURCE: PCT Int. Appl., 278 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 142

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001016318	A2	20010308	WO 2000-US23328	20000824 <--
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NZ 528704	A	20050225	NZ 1999-528704	19990308
WO 2000012708	A2	20000309	WO 1999-US20111	19990901 <--
WO 2000012708	A3	20011004		
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WO 2000015796	A2	20000323	WO 1999-US21090	19990915 <--
WO 2000015796	A3	20000824		
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JP 2004507201	T2	20040311	JP 2000-570323	19990915
CA 2450824	AA	20000420	CA 1999-2450824	19991005 <--
EP 1466977	A1	20041013	EP 2004-7618	19991202
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NZ 523206	A	20041224	NZ 2000-523206	20000211
NZ 523207	A	20041224	NZ 2000-523207	20000211
WO 2000053756	A2	20000914	WO 2000-US4341	20000218 <--
WO 2000053756	A3	20010201		
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 CA 2510797 AA 20000928 CA 2000-2510797 20000301 <--
 CA 2510806 AA 20000928 CA 2000-2510806 20000301 <--
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 CA 2512291 AA 20000928 CA 2000-2512291 20000301 <--
 CA 2512479 AA 20000928 CA 2000-2512479 20000301 <--
 WO 2000056889 A2 20000928 WO 2000-US5601 20000301 <--
 WO 2000056889 A3 20010426
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WO 1999-US30095	W 19991216
US 1999-99309	A 19991220
WO 1999-US30911	A1 19991220
WO 1999-US30999	A1 19991220
US 1999-468978	A1 19991221
WO 1999-US30720	W 19991222
US 1999-172059P	P 19991223
US 1999-172096P	P 19991223
WO 1999-US31243	W 19991230
WO 1999-US31274	W 19991230
WO 2000-US219	W 20000105
WO 2000-US277	W 20000106
WO 2000-US376	W 20000106
US 2000-177118P	P 20000120
WO 2000-US3565	A1 20000211
US 2000-441400	A 20000222
WO 2000-US4914	A 20000224
WO 2000-US5004	A1 20000224
CA 2000-2361221	A3 20000301
EP 2000-917717	A3 20000301
WO 2000-US5746	A 20000302
WO 2000-US5841	W 20000302
US 2000-186968P	P 20000306
WO 2000-US6471	W 20000309
WO 2000-US6319	A 20000310
US 2000-189320P	P 20000314
US 2000-189328P	P 20000314
WO 2000-US6884	A 20000315

WO 2000-US7377	A1 20000320
US 2000-190828P	P 20000321
US 2000-191015P	P 20000321
US 2000-191048P	P 20000321
US 2000-191314P	P 20000321
WO 2000-US7532	W 20000321
US 2000-192655P	P 20000328
US 2000-193032P	P 20000329
US 2000-193053P	P 20000329
WO 2000-US8439	W 20000330
US 2000-194449P	P 20000404
US 2000-194647P	P 20000404
US 2000-195975P	P 20000411
US 2000-196000P	P 20000411
US 2000-196187P	P 20000411
US 2000-196690P	P 20000411
US 2000-196820P	P 20000411
US 2000-198121P	P 20000418
US 2000-198585P	P 20000418
US 2000-199397P	P 20000425
US 2000-199550P	P 20000425
US 2000-199654P	P 20000425
US 2000-201516P	P 20000503
WO 2000-US13358	A 20000515
US 2000-204675P	P 20000517

AB The present invention is directed to novel human polypeptides and to nucleic acid mols. encoding those polypeptides. Eighty-four cDNAs clones were identified by homol. screening of extracellular domains (including the secretion signal sequence, if any), amylase screening, and signal algorithm anal. The proteins possess various useful biol. activities: including (1), pericyte c-fos induction, (2) affecting the release of glucose or free fatty acid uptake in skeletal muscle, (3) stimulating the release of proteoglycans from cartilage, and (4) stimulating **tumor necrosis factor-.alpha.** release in human blood. Many of the proteins show differential expression between normal and tumor tissues. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide mols. comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

IT 224301-63-7P 252050-55-8P 252196-85-3P
253579-88-3P 321202-67-9P 329799-91-9P
329799-99-7P 329800-10-4P

RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(amino acid sequence; nucleic acids encoding human secreted and transmembrane polypeptides)

RN 224301-63-7 HCAPLUS

CN Secretory protein (human clone HMEET96 266-amino acid precursor) (9CI)
(CA INDEX NAME)

SEQ 1 MWWFQQGLSF LPSALVIWTS AAFIFS YITA VTLHHIDPAL PYISDTGTVA
51 PEKCLFGAML NIAAVLCIAT IYVRYKQVHA LSPEENVIIK LNKAGLVLGI
101 LSCLGLSIVA NFQKTTLFAA HVSGAVLTFG MGSLYMFVQT ILSYQMOPKI
151 HGKQVFWIRL LLVIWCGVSA LSMLTCSSVL HSGNFGTDLE QKLHWNPEDK

201 GYVLHMITTA AEWSMSFSFF GFFLTYIRDF QKISLRVEAN LHGLTLYDTA
251 PCPINNERTR LLSRDI

RN 252050-55-8 HCAPLUS

CN Membrane protein PRO937 (human clone DNA56436-1448 precursor) (9CI) (CA INDEX NAME)

SEQ 1 MARFGLPALL CTLAVLSAAL LAAELKSKSC SEVRRLYVSK GFNKNDAPLH
51 EINGDHLKIC PQGSTCCSQE MEEKYSLQSK DDFKSVVSEQ CNHLQAVFAS
101 RYKKFDEFFK ELLENAEKSL NDMFVKTYGH LYMQNSELFK DLFVELKRY
151 VVGNVNLEEM LNDFWARLLE RMFRLVNSQY HFTDEYLECV SKYTEQLKPF
201 GDVPRKLKLQ VTRAFVAART FAQGLAVAGD VVSKVSVVNP TAQCTHALLK
251 MIYCSHCRGL VTVKPCYNYC SNIMRGCLAN QGDLD FEWNN FIDAMLMAE
301 RLEGPFNIES VMDPIDVKIS DAIMNMQDNS VQVSQKVFQG CGPPKPLPAG
351 RISRSISESA FSARFRPHHP EERPTTAAGT SLDRLVTDVK EKLKQAKKFW
401 SSLPSNVCND ERMAAGNGNE DDCWNGKKGK RYLFAVTGNG LANQGNNPEV
451 QVDTSKPDIL ILRQIMALRV MTSKMKNAYN GNDVDFFDIS DESSGEGSGS
501 GCEYQQCPSE FDYNATDHAG KSANEKADSA GVRPGAQAYL LTVFCILFLV
551 MQREWR

RN 252196-85-3 HCAPLUS

CN Membrane protein PRO1138 (human clone DNA58850-1495 precursor) (9CI) (CA INDEX NAME)

SEQ 1 MAGSPTCLTL IYILWQLTGS AASGPVKELV GSVGGAFTFP LKSKVKQVDS
51 IVWTFNTTPL VTIQPEGGTI IVTQNRNRER VDFPDGGYSL KLSKLKKNDS
101 GIYYVGIYSS SLQQPSTQEY VLHVYEHLSK PKVTMGLQSN KNGTCVTNLT
151 CCMEHGEEVD IYTWKALGQA ANESHNGSIL PISWRWGESD MTFICVARNP
201 VSRNFSSPIL ARKLCEGAAD DPDSSMVLLC LLLVPLLLSL FVLGLFLWFL
251 KRERQEEYIE EKKRVDICRE TPNICPHSGE NTEYDTIPHT NRTILKEDPA
301 NTVYSTVEIP KKMENPHSLT TMPDTPRLFA YENVI

RN 253579-88-3 HCAPLUS

CN Protein (human clone HP10537 hydrophobic domain-containing) (9CI) (CA INDEX NAME)

SEQ 1 MGRVSGLVPS RFLTLLAHLV VVITLFWSRD SNIQACLPLT FTPEEYDKQD
51 IQLVAALSVT LGLFAVELAG FLSGVSMFNS TQSLISIGAH CSASVALSFF
101 IFERWECTTY WYIFVFCSAL PAVTEMALFV TVFGLKKKPF

RN 321202-67-9 HCAPLUS

CN Cytokine receptor Zcytor14-1 (synthetic human) (9CI) (CA INDEX NAME)

SEQ 1 MPVPWFLLSL ALGRSPVVLS LERLVGPQDA THCSPGLSCR LWDSILCLP
51 GDIVPAPGPV LAPTHLQTEL VLRCQKETDC DLCLRVAVHL AVHGHWEEPE
101 DEEKFGGAAD SGVEEPRNAS LQAQVVLFSQ AYPTARCVLL EVQVPAALVQ
151 FGQSVGSVVY DCFEAAALGSE VRIWSYTQPR YEKELNHTQQ LPALPWLNV

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201 ADGDNVHLVL NVSEEQHFGL SLYWNQVQGP PKPRWHKNLT GPQIITLNHT
251 DLVPCLCIQV WPLEPDSVRT NICPFREDPR AHQNLWQAAR LRLLTLQSWL
301 LDAPCSLPAE AALCWRAPGG DPCQPLVPPL SWENVTVDKV LEFPLLKGHP
351 NLCVQVNSSE KLQLQECLWA DSLGPLKDDV LLETRGPQD NRSLCALEPS
401 GCTSLPSKAS TRAARLGEYL LQDLQSGQCL QLWDDDLGAL WACPMDKYIH
451 KRWALVWLAC LLFAAALSLI LLLKKDHAKG WLRLKQDVR SGAAARGRAA
501 LLLYSADDSG FERLVGALAS ALCQLPLRVA VDLWSRRELS AQGPVAFWHA
551 QRRQTLQEGG VVVLLFSPGA VALCSEWLQD GVSGBPAGHP HDAFRASLSC
601 VLPDFLQGRA PGSYVGACFD RLLHPDAVPA LFRTVPVFTL PSQLPDFLGA
651 LQQPRAPRSG RLQERAEQVS RALQPALDSY FHPPGTPAPG RGVGPGAGPG
701 AGDGT

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RN 329799-91-9 HCAPLUS
 CN Protein PRO3566 (human clone DNA59844-2542 precursor) (9CI) (CA INDEX NAME)

```

SEQ      1 MQGRVAGSCA PLGLLLVCLH LPGLFARSIG VVEEKVSQNF GTNLPQLGQP
      51 SSTGPSNSEH PQPALDPRSN DLARVPLKLS VPPSDGFPPA GGSQVQRWPP
     101 SWGLPAMDSW PPEDPWQMMMA AAAEDRLGEA LPEELSYLSS AAALAPGSGP
     151 LPGESSPDAT GLSPEASLLH QDSESRRLLPR SNSLGAGGKI LSQRPPWSLI
     201 HRVLPDHPWG TLNPSVSWGG GPGGTGWGTR PMPHPEGIWG INNQPPGTSW
     251 GNINRYPGGS WGNINRYPGG SWGNINRYPG GSWGNIHLYP GINNPFPPGV
     301 LRPPGSSWNI PAGFPNPPSP RLQWG

```

RN 329799-99-7 HCAPLUS
 CN Protein PRO1342 (human clone DNA66674-1599 precursor) (9CI) (CA INDEX NAME)

```

SEQ      1 MKMQKGNVLL MFGLLLHLEA ATNSNETSTS ANTGSSVISS GASTATNSGS
      51 SVTSSGVSTA TISGSSVTSN GVSIVTNSEF HTTSSGISTA TNSEFSTASS
     101 GISIATNSES STTSSGASTA TNSESSTPSS GASTVTNSGS SVTSSGASTA
     151 TNSESSTVSS RASTATNSES STLSSGASTA TNSDSSTTSS GASTATNSES
     201 STTSSGASTA TNSESSTVSS RASTATNSES STTSSGASTA TNSESRTTSN
     251 GAGTATNSES STTSSGASTA TNSDSSTVSS GASTATNSES STTSSGASTA
     301 TNSESSTTSS GASTATNSDS STTSSGAGTA TNSESSTVSS GISTVTNSES
     351 STPSSGANTA TNSESSTTSS GANTATNSES STVSSGASTA TNSESSTTSS
     401 GVSTATNSES STTSSGASTA TNSDSSTTSS EASTATNSES STVSSGISTV
     451 TNSESSTTSS GANTATNSGS SVTSAGSGTA ALTGMHTTSH SASTAVSEAK
     501 PGGSLVPWEI FLITLVSVVA AVGLFAGLFF CVRNSLSLRN TFNTAVYHPH
     551 GLNHGLGPGP GGNHGAPHRP RWSPNWFWRP PVSSIAMEMS GRNSGP

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RN 329800-10-4 HCAPLUS
 CN Protein PRO1925 (human clone DNA82302-2529 precursor) (9CI) (CA INDEX NAME)

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SEQ      1 MSARGRWEGG GRRACRGS LG LARAQGAERV TSSEQRPAMA SLGLLLLLLLL
      51 TALPPLWSSS LPGLDTAESK ATIADLILSA LERATVFLEQ RLPEINLDGM
     101 VGVRVLEEQL KSVREKWAQE PLLQPLSLRV GMLGEKLEAA IQRSLHYLKL
     151 SDPKYLREFQ LTLQPGFWKL PHAWIHTDAS LVYPTFGPQD SFSEERSDVC
     201 LVQLLGTTGTD SSEPCGLSDL CRSLMTKPGC SGYCLSHQLL FFLWARMRG

```

251 TQGPLQQSQD YINLFCANMM DLNRRAEAIG YAYPTRDIFM ENIMFCGMGG
 301 FSDFYKLRWL EAILSQKQQ EGCFGEPAE DEELSKAIQY QQHFSRRVKR
 351 REKQFPDSRS VAQAGVQWRN LGSLQPLPPG FKQFSLILP SSWDYRSVPP
 401 YLANFYIFLV ETGFHHVAHA GLELLISRDPTSGSQSVGL

L72 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:341108 HCAPLUS

DOCUMENT NUMBER: 122:237788

TITLE: **Tumor necrosis factor-**

alpha. muteins with preferential affinity for the p75-TNF receptor

INVENTOR(S): Banner, David; Lesslauer, Werner; Loetscher, Hansruedi; Stueber, Dietrich

PATENT ASSIGNEE(S): F. Hoffmann-la Roche AG, Switz.

SOURCE: Can. Pat. Appl., 58 pp.

CODEN: CPXXEB

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2119089	AA	19940930	CA 1994-2119089	19940315 <--
EP 619372	A1	19941012	EP 1994-104154	19940317 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AU 9459019	A1	19941006	AU 1994-59019	19940323 <--
HU 68218	A2	19950628	HU 1994-829	19940323 <--
US 5597899	A	19970128	US 1994-217529	19940324 <--
NO 9401142	A	19940930	NO 1994-1142	19940328 <--
BR 9401321	A	19941018	BR 1994-1321	19940328 <--
CN 1099802	A	19950308	CN 1994-103792	19940328 <--
FI 9401459	A	19940930	FI 1994-1459	19940329 <--
JP 08009976	A2	19960116	JP 1994-59514	19940329 <--
PRIORITY APPLN. INFO.:			EP 1993-810224	A 19930329

AB Human **tumor necrosis factor-.alpha**

. (**TNF.alpha.**) muteins having higher binding affinity for human p75-TNF receptor than for human p55-TNF receptor include muteins having at least one amino acid change relative to wild-type human **TNF.alpha.** at a positions 33, 65, 67, 75, 87, 143, 145, or 147 of the wild-type amino acid sequence. Such muteins can be used to characterize human p75-receptor and, together with known muteins with selective binding affinity for human p55-TNF receptor, can aid in distinguishing between TNF functions mediated via binding to human p75-receptor and those mediated via binding to human p55-receptor. Thirty **TNF.alpha.** muteins had preferential binding activity out of a total of 88 muteins tested. For example, **TNF.alpha.** (D1432N-A145R) mutein was prepared using the expression plasmid pDS56/RBSII, SphI-**TNF.alpha.**, which codes for the 157-residue amino acid sequence. Mutagenesis of the **TNF.alpha.** gene using PCR was carried out with 4 primers complimentary to nucleotides 3949-3970, 552-525, 553-574, and 748-727 of the plasmid but containing mutated bases. Muteins were then produced by standard genetic techniques via transformation into Escherichia coli M15 cells. Binding activity was measured by a solid-phase radioligand competition assay with microtiter plates coated with recombinant p75-TNF-R-hy3 and

p55-hy3 fusion proteins (i.e., the extracellular portion of the receptors fused to the Fc part of human IgG3).

IT 103107-81-9P 160831-36-7P 160831-37-8P
160831-38-9P 160831-39-0P 160831-40-3P
160831-41-4P 160831-42-5P 160831-43-6P
160831-44-7P 160831-45-8P 160831-46-9P
160831-47-0P 160831-48-1P 160831-49-2P
160831-50-5P 160831-51-6P 160831-52-7P
160831-53-8P 160831-54-9P 160831-55-0P
160831-56-1P 160831-57-2P 160831-58-3P
160831-59-4P 160831-60-7P 160831-61-8P
160831-62-9P 160831-63-0P

RL: BAC (Biological activity or effector, except adverse); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation)
(amino acid sequence; human **tumor necrosis factor**- α muteins with preferential affinity for the p75-TNF receptor)

RN 103107-81-9 HCAPLUS

CN Tumor necrosis factor (human reduced), 145-L-threonine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-36-7 HCAPLUS

CN Tumor necrosis factor [65-alanine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-37-8 HCAPLUS

CN Tumor necrosis factor [65-tryptophan] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-38-9 HCAPLUS

CN Tumor necrosis factor [67-lysine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-39-0 HCAPLUS

CN Tumor necrosis factor [67-threonine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-40-3 HCAPLUS

CN Tumor necrosis factor [67-tyrosine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-41-4 HCAPLUS

CN Tumor necrosis factor [75-histidine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-42-5 HCAPLUS

CN Tumor necrosis factor [75-tryptophan] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-43-6 HCAPLUS

CN Tumor necrosis factor [143-asparagine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-44-7 HCAPLUS

CN Tumor necrosis factor [143-glutamic acid] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-45-8 HCAPLUS

CN Tumor necrosis factor [143-phenylalanine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-46-9 HCAPLUS

CN Tumor necrosis factor [143-tryptophan] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-47-0 HCAPLUS

CN Tumor necrosis factor [143-tyrosine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-48-1 HCAPLUS

CN Tumor necrosis factor [143-valine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-49-2 HCAPLUS

CN Tumor necrosis factor [143-valine,144-leucine,145-serine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-50-5 HCAPLUS

CN Tumor necrosis factor [143-asparagine,145-arginine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-51-6 HCAPLUS

CN Tumor necrosis factor [143-valine,145-serine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-52-7 HCAPLUS

CN Tumor necrosis factor [145-arginine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-53-8 HCAPLUS

CN Tumor necrosis factor [145-aspartic acid] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-54-9 HCAPLUS

CN Tumor necrosis factor [145-glycine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-55-0 HCAPLUS

CN Tumor necrosis factor [145-histidine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-56-1 HCAPLUS
CN Tumor necrosis factor [145-lysine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-57-2 HCAPLUS
CN Tumor necrosis factor [145-phenylalanine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-58-3 HCAPLUS
CN Tumor necrosis factor [145-serine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-59-4 HCAPLUS
CN Tumor necrosis factor [145-tryptophan] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-60-7 HCAPLUS
CN Tumor necrosis factor [145-tyrosine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-61-8 HCAPLUS
CN Tumor necrosis factor [145-valine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-62-9 HCAPLUS
CN Tumor necrosis factor [146-arginine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 160831-63-0 HCAPLUS
CN Tumor necrosis factor [147-leucine] (human reduced) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **94948-61-5**, Tumor necrosis factor (human reduced)
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(amino acid sequence; human **tumor necrosis factor- α** muteins with preferential affinity for the p75-TNF receptor)

RN 94948-61-5 HCAPLUS
CN Tumor necrosis factor (human reduced) (9CI) (CA INDEX NAME)

SEQ 1 VRSSSRTPSD KPAHVVANP QAEGQLQWLN RRANALLANG VELRDNQLVV
51 PSEGLYLIYS QVLFKGQGCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP
101 QQRETPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINRPD YLDFAESGQV
151 YFGIIAL

L72 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:447152 HCAPLUS

DOCUMENT NUMBER: 119:47152

TITLE: Site-directed mutational analysis of human
tumor necrosis factor-.

alpha. receptor binding site and
structure-functional relationship
AUTHOR(S): Zhang, Xiang Ming; Weber, Irene; Chen, Mann Jy
CORPORATE SOURCE: Dep. Mol. Genet., SmithKline and French Lab., King of
Prussia, PA, 19406, USA
SOURCE: Journal of Biological Chemistry (1992),
267(33), 24069-75
CODEN: JBCHA3; ISSN: 0021-9258
DOCUMENT TYPE: Journal
LANGUAGE: English

AB In order to define the receptor binding site and the structure-functional relationship of tumor necrosis factor (TNF), single amino acid substitutions were made by site-directed mutagenesis at selected residues of human tumor necrosis factor, using a phagemid mutagenesis/expression vector. The recombinant TNF mutants were compared to the wild type TNF in assays using crude bacterial lysates, for protein yield, solubility, subunit trimerization, receptor binding inhibition activity, and in vitro cytotoxic activity. All mutants which did not form cross-linkage trimer also showed little cytotoxic activity or receptor binding inhibition activity, indicating that trimer formation is obligatory for **TNF** -**alpha.** activity. Most mutations of internal residues yielded no cross-linkable trimer, while most mutations of surface residues yielded cross-linkable trimer. Mutations at surface residues Leu29, Arg31, and Ala35 yielded cross-linkable trimers with good activities, except proline substitutions which may cause conformational changes in the polypeptide chain. This suggested that these residues are near the receptor binding site. Mutations at other strictly conserved internal residues such as Ser60, His78, and Tyr119 form cross-linkable trimer with little activity. These mutations may indirectly affect the receptor binding site by forming trimers with undetectable abnormalities. Mutants of surface residues Tyr87, Ser95, Ser133, and Ser147 affect receptor binding and cytotoxic activity but not trimer formation, suggesting that these residues are involved directly in receptor binding. The fact that residues Arg31, Ala35, Tyr87, Ser95, and Ser147, located on the opposite sides of a monomer, are clustered at the intersubunit grooves of TNF trimer supports the current notion that TNF receptor binding sites are trivalent and are located at the three intersubunit grooves. However, Ser133 which is outside the groove can also be involved directly in receptor binding suggesting that the receptor binding sites of TNF may not be confined to the intersubunit grooves, but extended to include addnl. surface residues.

IT 103107-25-1 103107-36-4 130175-24-5
130175-30-3 130175-47-2 130175-63-2

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(as **tumor necrosis factor- α**

analog of humans, structure-function in relation to)

RN 103107-25-1 HCAPLUS

CN Tumor necrosis factor (human reduced), 39-L-aspartic acid- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 103107-36-4 HCAPLUS

CN Tumor necrosis factor (human reduced), 133-glycine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 130175-24-5 HCAPLUS

CN Tumor necrosis factor (human reduced), 60-L-alanine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 130175-30-3 HCAPLUS

CN Tumor necrosis factor (human reduced), 15-L-asparagine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 130175-47-2 HCAPLUS

CN Tumor necrosis factor (human reduced), 87-L-histidine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 130175-63-2 HCAPLUS

CN Tumor necrosis factor (human reduced), 59-L-phenylalanine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 148591-71-3 148591-72-4 148591-73-5

148591-74-6 148591-75-7 148591-76-8

148591-77-9 148591-84-8 148591-85-9

148591-86-0 148591-87-1 148591-88-2

148591-89-3 148591-90-6 148591-91-7

148591-92-8 148591-93-9 148591-94-0

148591-95-1 148591-96-2 148591-97-3

148591-98-4 148591-99-5 148592-00-1

148592-01-2 148592-02-3 148592-03-4

148592-04-5 148592-05-6 148592-06-7

148592-07-8 148592-08-9 148592-09-0

148592-10-3 148592-11-4 148592-12-5

148592-13-6 148592-14-7 148592-15-8

148592-16-9 148592-17-0 148592-18-1

148592-19-2 148592-20-5 148592-21-6

148592-22-7 148592-23-8 148592-24-9

148592-25-0 148592-26-1 148592-27-2

148592-28-3 148592-29-4 148592-30-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(as tumor necrosis factor- α

analog of humans, structure-function in relation to)

RN 148591-71-3 HCAPLUS

CN Tumor necrosis factor (human reduced), 15-L-tyrosine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-72-4 HCAPLUS

CN Tumor necrosis factor (human reduced), 15-L-aspartic acid- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-73-5 HCAPLUS

CN Tumor necrosis factor (human reduced), 15-L-proline- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-74-6 HCAPLUS

CN Tumor necrosis factor (human reduced), 28-L-cysteine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-75-7 HCAPLUS

CN Tumor necrosis factor (human reduced), 28-L-arginine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-76-8 HCAPLUS

CN Tumor necrosis factor (human reduced), 28-L-leucine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-77-9 HCAPLUS

CN Tumor necrosis factor (human reduced), 28-L-serine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-84-8 HCAPLUS

CN Tumor necrosis factor (human reduced), 35-L-serine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-85-9 HCAPLUS

CN Tumor necrosis factor (human reduced), 35-L-proline- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-86-0 HCAPLUS

CN Tumor necrosis factor (human reduced), 35-L-threonine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-87-1 HCAPLUS

CN Tumor necrosis factor (human reduced), 39-L-histidine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-88-2 HCAPLUS

CN Tumor necrosis factor (human reduced), 39-L-serine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-89-3 HCAPLUS

CN Tumor necrosis factor (human reduced), 39-L-tyrosine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-90-6 HCAPLUS

CN Tumor necrosis factor (human reduced), 39-L-lysine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-91-7 HCAPLUS

CN Tumor necrosis factor (human reduced), 39-L-isoleucine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-92-8 HCAPLUS

CN Tumor necrosis factor (human reduced), 39-L-threonine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-93-9 HCAPLUS

CN Tumor necrosis factor (human reduced), 56-L-asparagine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-94-0 HCAPLUS

CN Tumor necrosis factor (human reduced), 56-L-alanine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-95-1 HCAPLUS

CN Tumor necrosis factor (human reduced), 56-L-serine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-96-2 HCAPLUS

CN Tumor necrosis factor (human reduced), 59-L-asparagine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-97-3 HCAPLUS

CN Tumor necrosis factor (human reduced), 59-L-alanine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-98-4 HCAPLUS

CN Tumor necrosis factor (human reduced), 59-L-serine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148591-99-5 HCAPLUS

CN Tumor necrosis factor (human reduced), 60-L-threonine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-00-1 HCAPLUS

CN Tumor necrosis factor (human reduced), 60-L-phenylalanine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-01-2 HCAPLUS

CN Tumor necrosis factor (human reduced), 60-L-tyrosine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-02-3 HCAPLUS

CN Tumor necrosis factor (human reduced), 78-L-proline- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-03-4 HCAPLUS

CN Tumor necrosis factor (human reduced), 78-L-glutamine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-04-5 HCAPLUS

CN Tumor necrosis factor (human reduced), 78-L-leucine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-05-6 HCAPLUS

CN Tumor necrosis factor (human reduced), 87-L-asparagine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-06-7 HCAPLUS
CN Tumor necrosis factor (human reduced), 87-L-serine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-07-8 HCAPLUS
CN Tumor necrosis factor (human reduced), 95-L-tyrosine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-08-9 HCAPLUS
CN Tumor necrosis factor (human reduced), 95-L-phenylalanine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-09-0 HCAPLUS
CN Tumor necrosis factor (human reduced), 115-L-cysteine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-10-3 HCAPLUS
CN Tumor necrosis factor (human reduced), 115-L-phenylalanine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-11-4 HCAPLUS
CN Tumor necrosis factor (human reduced), 119-L-asparagine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-12-5 HCAPLUS
CN Tumor necrosis factor (human reduced), 119-L-histidine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-13-6 HCAPLUS
CN Tumor necrosis factor (human reduced), 119-L-cysteine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-14-7 HCAPLUS
CN Tumor necrosis factor (human reduced), 119-L-serine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-15-8 HCAPLUS
CN Tumor necrosis factor (human reduced), 133-L-cysteine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-16-9 HCAPLUS
CN Tumor necrosis factor (human reduced), 133-L-threonine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-17-0 HCAPLUS
CN Tumor necrosis factor (human reduced), 133-L-isoleucine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-18-1 HCAPLUS
CN Tumor necrosis factor (human reduced), 147-L-alanine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 148592-19-2 HCAPLUS
CN Tumor necrosis factor (human reduced), 147-L-threonine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 148592-20-5 HCAPLUS
CN Tumor necrosis factor (human reduced), 147-L-phenylalanine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 148592-21-6 HCAPLUS
CN Tumor necrosis factor (human reduced), 147-L-tyrosine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 148592-22-7 HCAPLUS
CN Tumor necrosis factor (human reduced), 147-L-cysteine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 148592-23-8 HCAPLUS
CN Tumor necrosis factor (human reduced), 11-L-glutamine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 148592-24-9 HCAPLUS
CN Tumor necrosis factor (human reduced), 11-L-methionine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 148592-25-0 HCAPLUS
CN Tumor necrosis factor (human reduced), 11-L-threonine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 148592-26-1 HCAPLUS
CN Tumor necrosis factor (human reduced), 11-L-asparagine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 148592-27-2 HCAPLUS
CN Tumor necrosis factor (human reduced), 27-L-proline- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 148592-28-3 HCAPLUS
CN Tumor necrosis factor (human reduced), 27-L-leucine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 148592-29-4 HCAPLUS
CN Tumor necrosis factor (human reduced), 27-L-histidine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 148592-30-7 HCAPLUS

CN Tumor necrosis factor (human reduced), 27-L-lysine- (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 94948-61-5, Tumor necrosis factor (human reduced)

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(structure-function study of, of humans)

RN 94948-61-5 HCAPLUS

CN Tumor necrosis factor (human reduced) (9CI) (CA INDEX NAME)

SEQ 1 VRSSSRTPSD KPAHVVANP QAEGQLQWLN RRANALLANG VELRDNQLVV
51 PSEGLYLIYS QVLFKGQGCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP
101 CQRETPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINRPD YLDFAESGQV
151 YFGIIAL

L72 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:35646 HCAPLUS

DOCUMENT NUMBER: 116:35646

TITLE: Microbial manufacture of human **tumor necrosis factor .alpha.**
derivatives

INVENTOR(S): Ito, Ryoji; Morita, Toshimi; Matsuyama, Noriko;
Tsukii, Yuji

PATENT ASSIGNEE(S): Tsumura and Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03197498	A2	19910828	JP 1989-334988	19891226 <--
PRIORITY APPLN. INFO.:			JP 1989-334988	19891226
OTHER SOURCE(S):	MARPAT 116:35646			

AB Human **tumor necrosis factor .alpha**

. (**TNF-.alpha.**) derivs. are manufactured by expression of the genes derived from random mutation of the parental **TNF-.alpha.** gene in Escherichia coli. These **TNF-.alpha.** derivs. are more effective, but less toxic, antitumor agents as compared to the parental **TNF-.alpha.**

Twelve **TNF-.alpha.** derivative genes generated by random mutation with hydroxylamine were prepared and used for construction of 12 expression plasmids. Each **TNF-.alpha.** derivative was purified and its amino acid sequence determined

IT 138415-32-4 138415-33-5 138415-34-6

138415-35-7 138415-36-8 138415-37-9

138415-38-0 138415-39-1 138415-40-4

138415-41-5 138415-42-6 138415-43-7

RL: PRP (Properties); BIOL (Biological study)

(amino acid sequence of and cloning and expression in Escherichia coli of gene for)

RN 138415-32-4 HCAPLUS
CN Tumor necrosis factor (human reduced), 131-L-cysteine- (9CI) (CA INDEX NAME)

SEQ 1 VRSSSRTPSD KPVAVVAVANP QAEGQLQWLN RRANALLANG VELRDNQLVV
51 PSEGLYLIYS QVLFGQGQCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP
101 CQRETPEGAE AKPWYEPIYL GGVFQLEKGD CLSAEINRPD YLDFAESGQV
151 YFGIIAL

RN 138415-33-5 HCAPLUS
CN Tumor necrosis factor (human reduced), 44-L-cysteine-131-L-cysteine- (9CI) (CA INDEX NAME)

SEQ 1 VRSSSRTPSD KPVAVVAVANP QAEGQLQWLN RRANALLANG VELCDNQLVV
51 PSEGLYLIYS QVLFGQGQCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP
101 CQRETPEGAE AKPWYEPIYL GGVFQLEKGD CLSAEINRPD YLDFAESGQV
151 YFGIIAL

RN 138415-34-6 HCAPLUS
CN Tumor necrosis factor (human reduced), 44-L-cysteine-105-L-isoleucine- (9CI) (CA INDEX NAME)

SEQ 1 VRSSSRTPSD KPVAVVAVANP QAEGQLQWLN RRANALLANG VELCDNQLVV
51 PSEGLYLIYS QVLFGQGQCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP
101 CQREIPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINRPD YLDFAESGQV
151 YFGIIAL

RN 138415-35-7 HCAPLUS
CN Tumor necrosis factor (human reduced), 138-L-cysteine-147-L-phenylalanine- (9CI) (CA INDEX NAME)

SEQ 1 VRSSSRTPSD KPVAVVAVANP QAEGQLQWLN RRANALLANG VELRDNQLVV
51 PSEGLYLIYS QVLFGQGQCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP
101 CQRETPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINCPD YLDFAEFGQV
151 YFGIIAL

RN 138415-36-8 HCAPLUS
CN Tumor necrosis factor (human reduced), 70-L-leucine- (9CI) (CA INDEX NAME)

SEQ 1 VRSSSRTPSD KPVAVVAVANP QAEGQLQWLN RRANALLANG VELRDNQLVV
51 PSEGLYLIYS QVLFGQGQCL STHVLLTHTI SRIAVSYQTK VNLLSAIKSP
101 CQRETPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINRPD YLDFAESGQV
151 YFGIIAL

RN 138415-37-9 HCAPLUS
CN Tumor necrosis factor (human reduced), 36-L-phenylalanine- (9CI) (CA INDEX NAME)

SEQ 1 VRSSSRTPSD KPAHVVANP QAEGQLQWLN RRANAFLANG VELRDNQLVV
51 PSEGLYLIYS QVLFKGQGCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP
101 CQRETPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINRPD YLDFAESGQV
151 YFGIIAL

RN 138415-38-0 HCAPLUS
CN Tumor necrosis factor (human reduced), 95-L-phenylalanine-153-L-valine- (9CI) (CA INDEX NAME)

SEQ 1 VRSSSRTPSD KPAHVVANP QAEGQLQWLN RRANALLANG VELRDNQLVV
51 PSEGLYLIYS QVLFKGQGCP STHVLLTHTI SRIAVSYQTK VNLLFAIKSP
101 CQRETPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINRPD YLDFAESGQV
151 YFVIIAL

RN 138415-39-1 HCAPLUS
CN Tumor necrosis factor (human reduced), 106-L-serine- (9CI) (CA INDEX NAME)

SEQ 1 VRSSSRTPSD KPAHVVANP QAEGQLQWLN RRANALLANG VELRDNQLVV
51 PSEGLYLIYS QVLFKGQGCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP
101 CQRETSEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINRPD YLDFAESGQV
151 YFGIIAL

RN 138415-40-4 HCAPLUS
CN Tumor necrosis factor (human reduced), 117-L-serine- (9CI) (CA INDEX NAME)

SEQ 1 VRSSSRTPSD KPAHVVANP QAEGQLQWLN RRANALLANG VELRDNQLVV
51 PSEGLYLIYS QVLFKGQGCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP
101 CQRETPEGAE AKPWYESIYL GGVFQLEKGD RLSAEINRPD YLDFAESGQV
151 YFGIIAL

RN 138415-41-5 HCAPLUS
CN Tumor necrosis factor (human reduced), 106-L-serine-131-L-cysteine- (9CI) (CA INDEX NAME)

SEQ 1 VRSSSRTPSD KPAHVVANP QAEGQLQWLN RRANALLANG VELRDNQLVV
51 PSEGLYLIYS QVLFKGQGCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP
101 CQRETSEGAE AKPWYEPIYL GGVFQLEKGD CLSAEINRPD YLDFAESGQV
151 YFGIIAL

RN 138415-42-6 HCAPLUS
CN Tumor necrosis factor (human reduced), 15-L-tryptophan- (9CI) (CA INDEX NAME)

SEQ 1 VRSSSRTPSD KPVAWVVANP QAEGQLQWLN RRANALLANG VELRDNQLVV
51 PSEGLYLIYS QVLFKGQGCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP
101 CQRETPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINRPD YLDFAESGQV
151 YFGIIAL

RN 138415-43-7 HCAPLUS
CN Tumor necrosis factor (human reduced), 38-L-valine- (9CI) (CA INDEX NAME)

SEQ 1 VRSSSRTPSD KPVAHVVANP QAEGQLQWLN RRANALLVNG VELRDNQLVV
51 PSEGLYLIYS QVLFKGQGCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP
101 CQRETPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINRPD YLDFAESGQV
151 YFGIIAL